

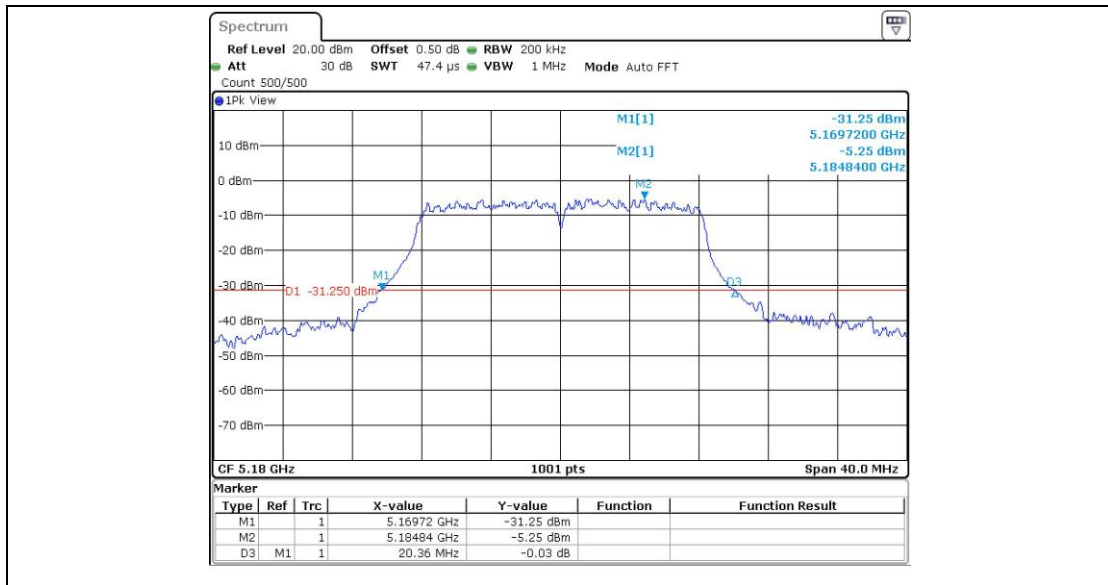
Appendix
of
210428035SZN-003

Appendix A1: Emission Bandwidth

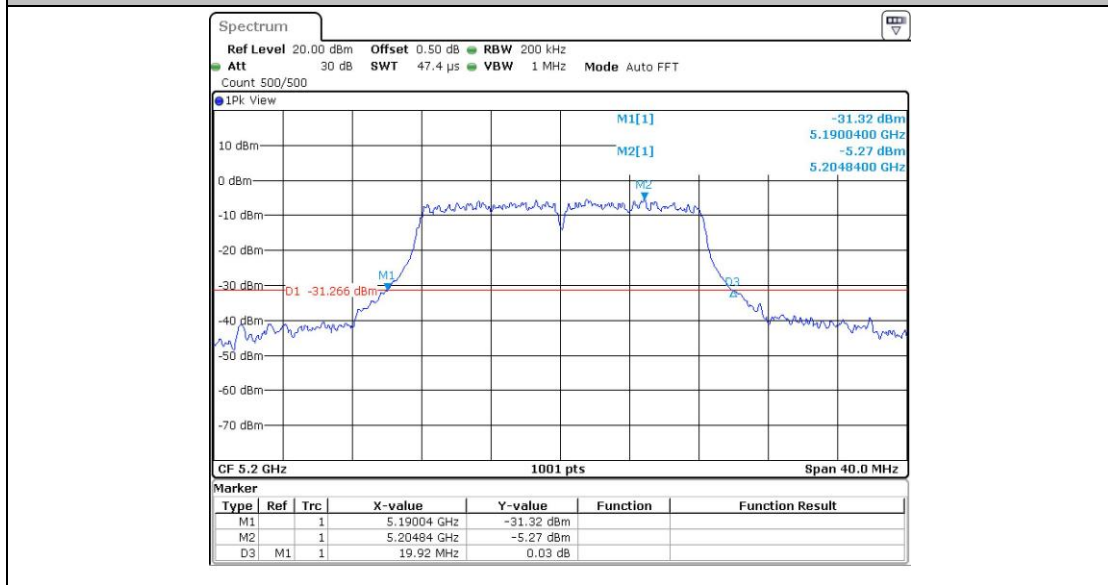
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.360	5169.720	5190.080	---	PASS
		5200	19.920	5190.040	5209.960	---	PASS
		5240	20.480	5229.520	5250.000	---	PASS
		5745	37.560	5725.680	5763.240	---	PASS
		5785	35.320	5767.720	5803.040	---	PASS
		5825	36.360	5806.680	5843.040	---	PASS
11N20SISO	Ant1	5180	21.360	5169.440	5190.800	---	PASS
		5200	21.320	5189.240	5210.560	---	PASS
		5240	21.200	5229.400	5250.600	---	PASS
		5745	40.000	5725.000	5765.000	---	PASS
		5785	39.120	5765.800	5804.920	---	PASS
		5825	37.480	5805.800	5843.280	---	PASS
11N40SISO	Ant1	5190	38.960	5170.720	5209.680	---	PASS
		5230	38.960	5210.720	5249.680	---	PASS
		5755	79.920	5715.000	5794.920	---	PASS
		5795	77.920	5755.000	5832.920	---	PASS

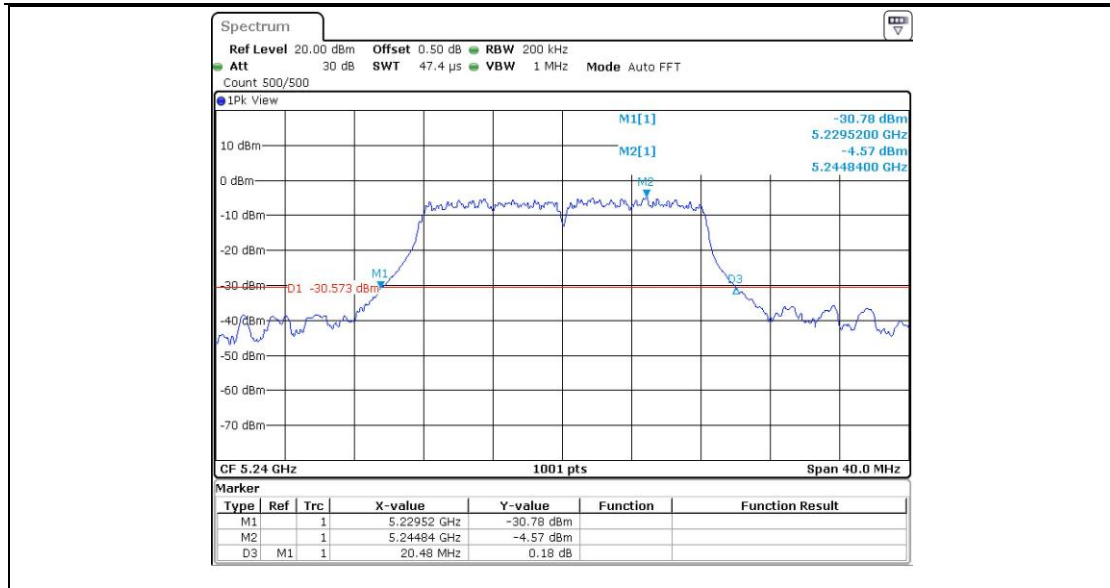
Test Graphs



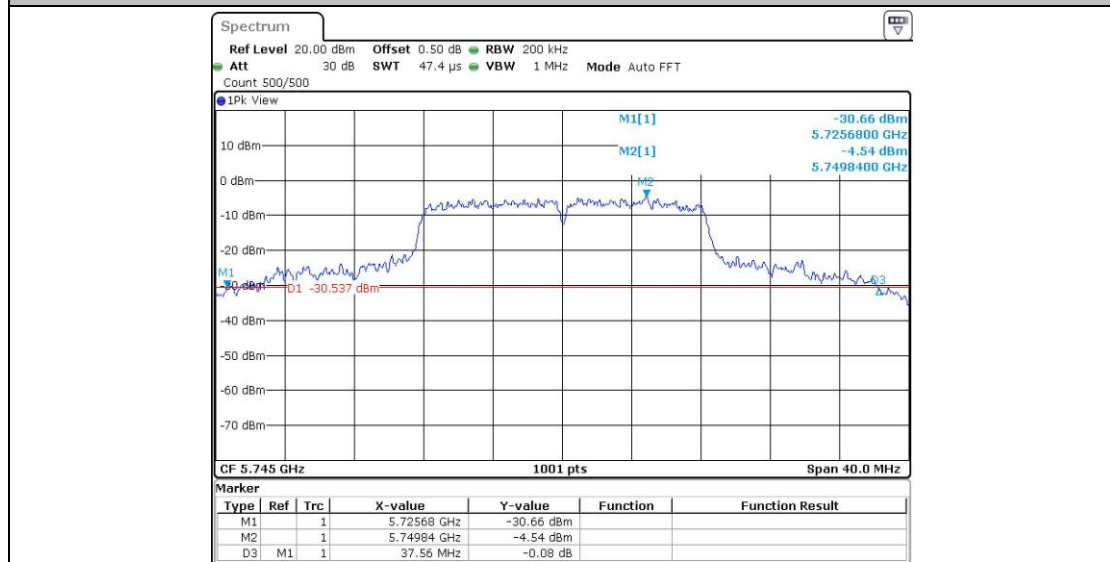
11A_Ant1_5180



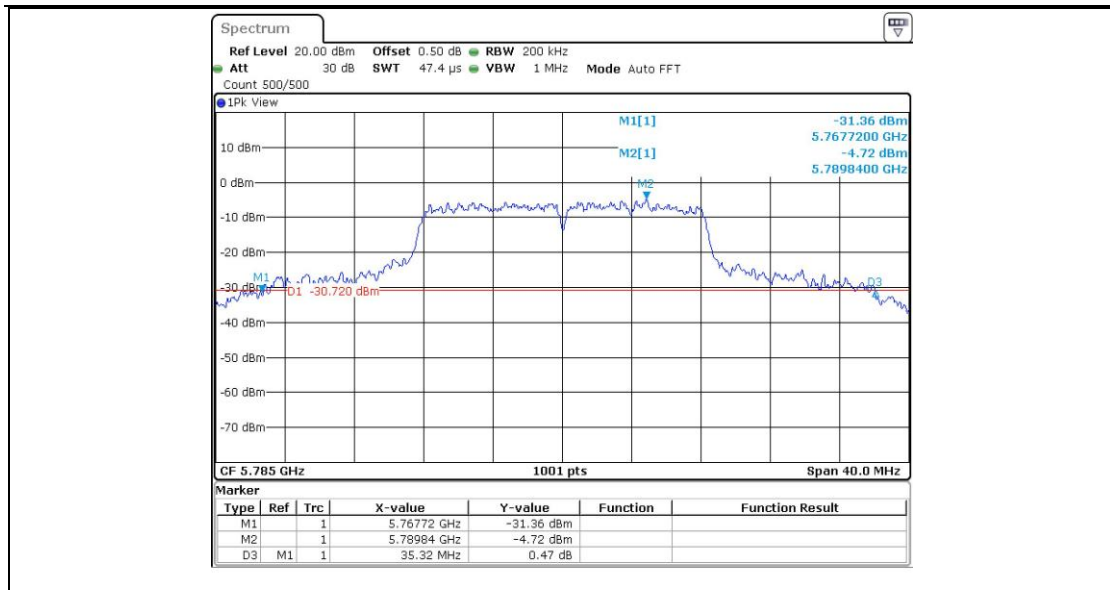
11A_Ant1_5200



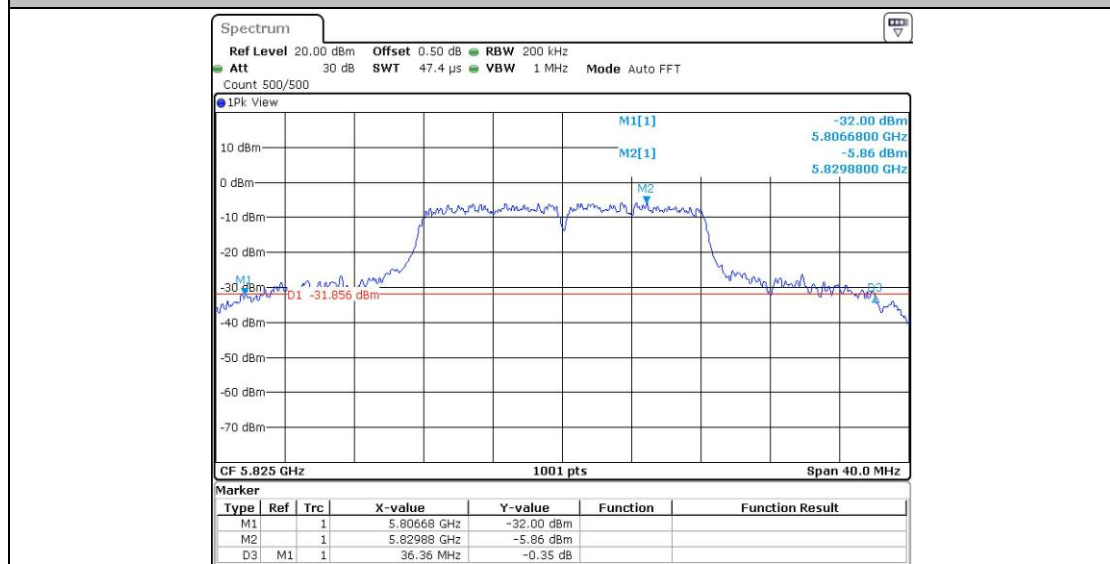
11A_Ant1_5240



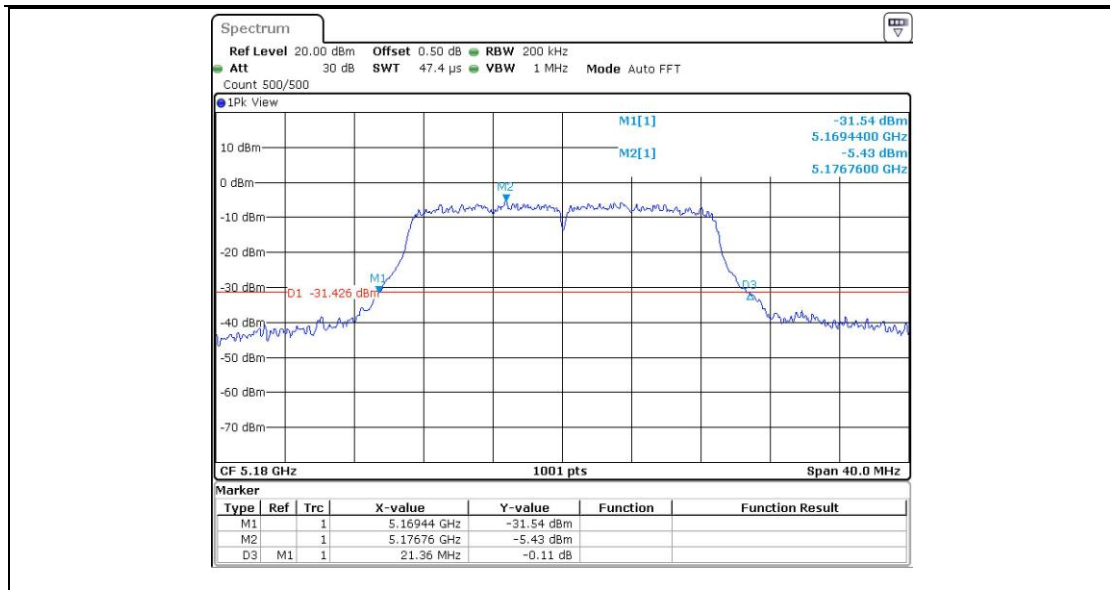
11A_Ant1_5745



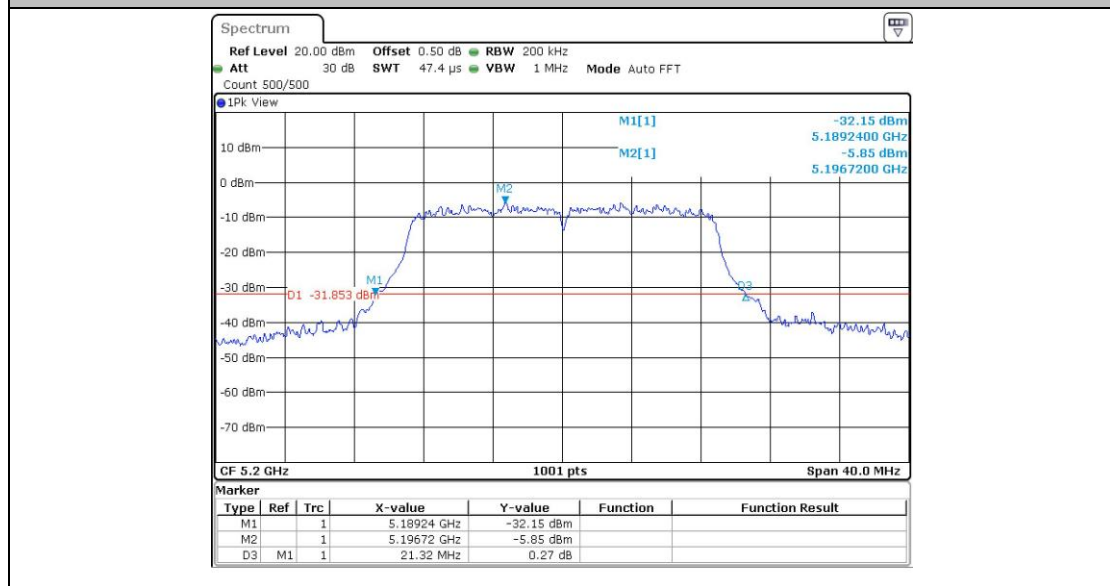
11A_Ant1_5785



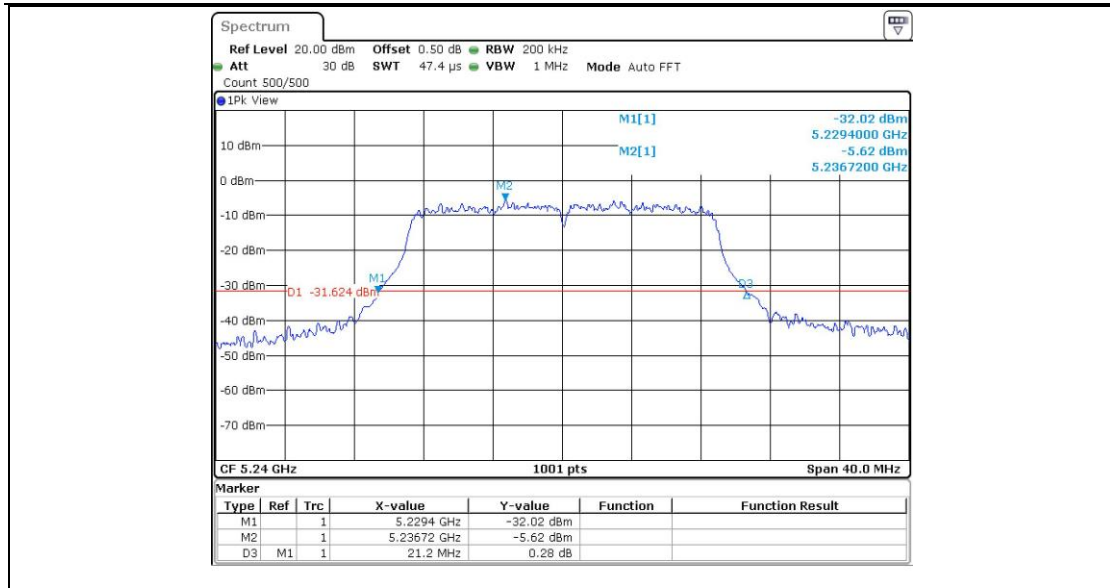
11A_Ant1_5825



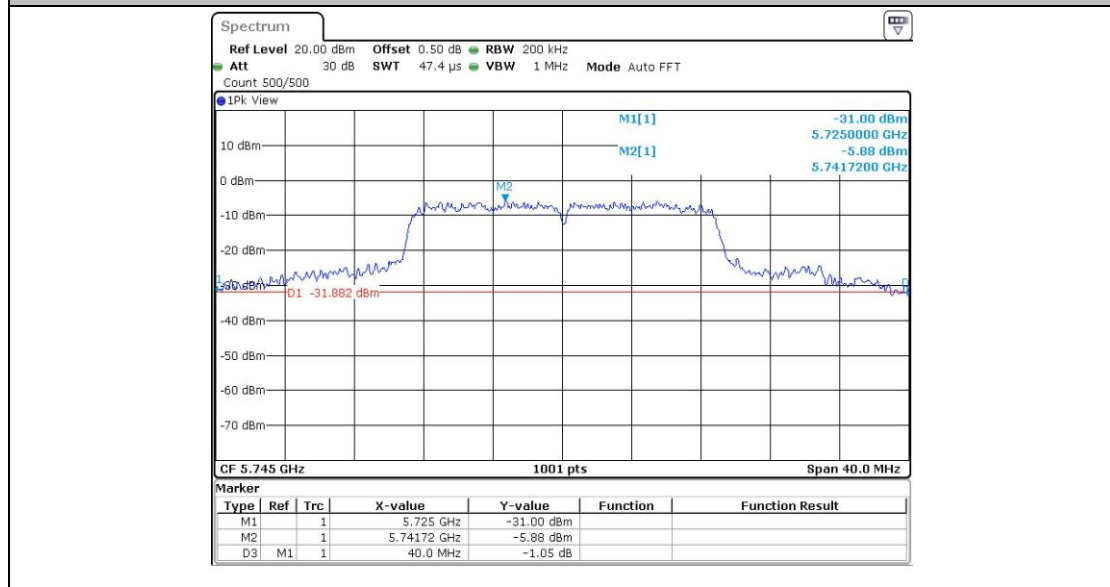
11N20SISO_Ant1_5180



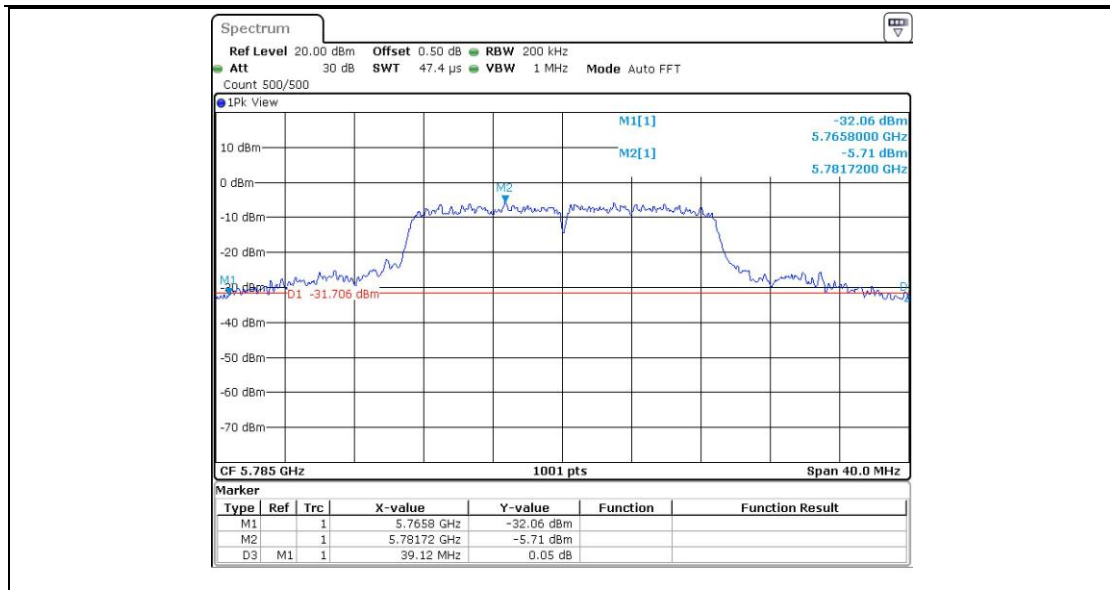
11N20SISO_Ant1_5200



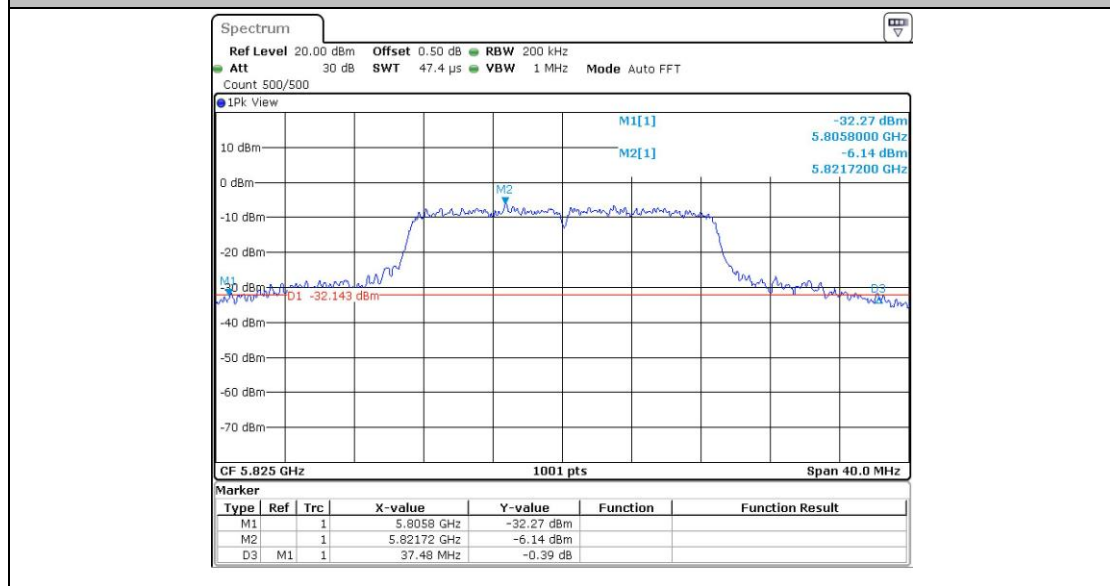
11N20SISO_Ant1_5240



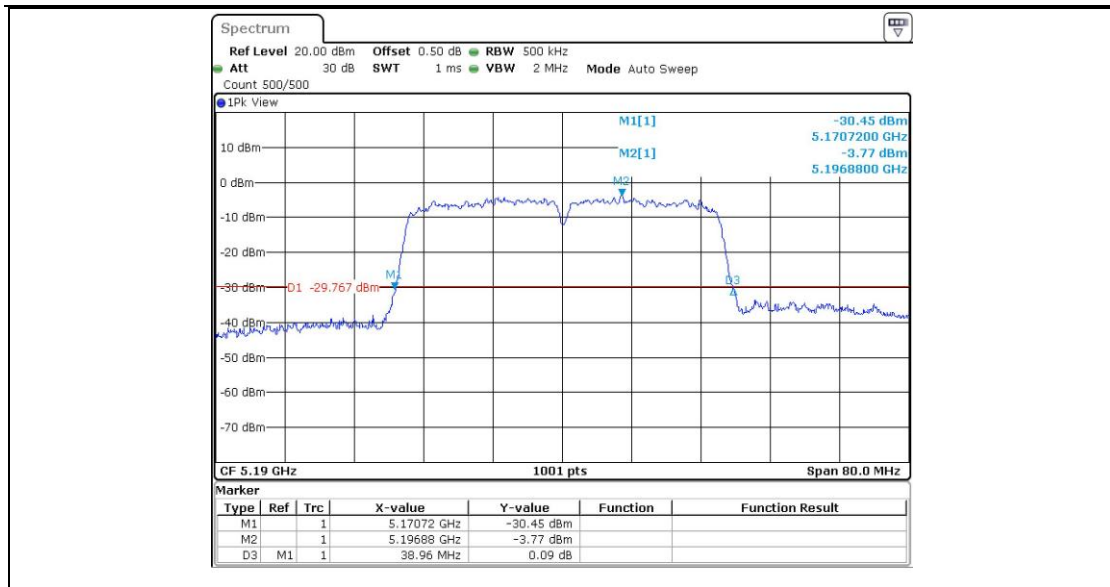
11N20SISO_Ant1_5745



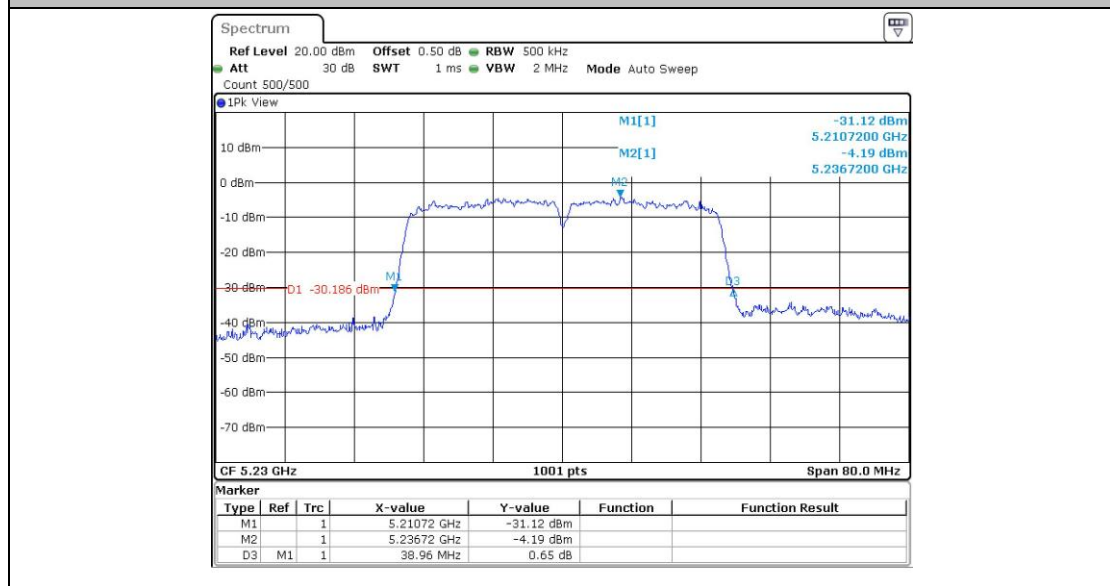
11N20SISO_Ant1_5785



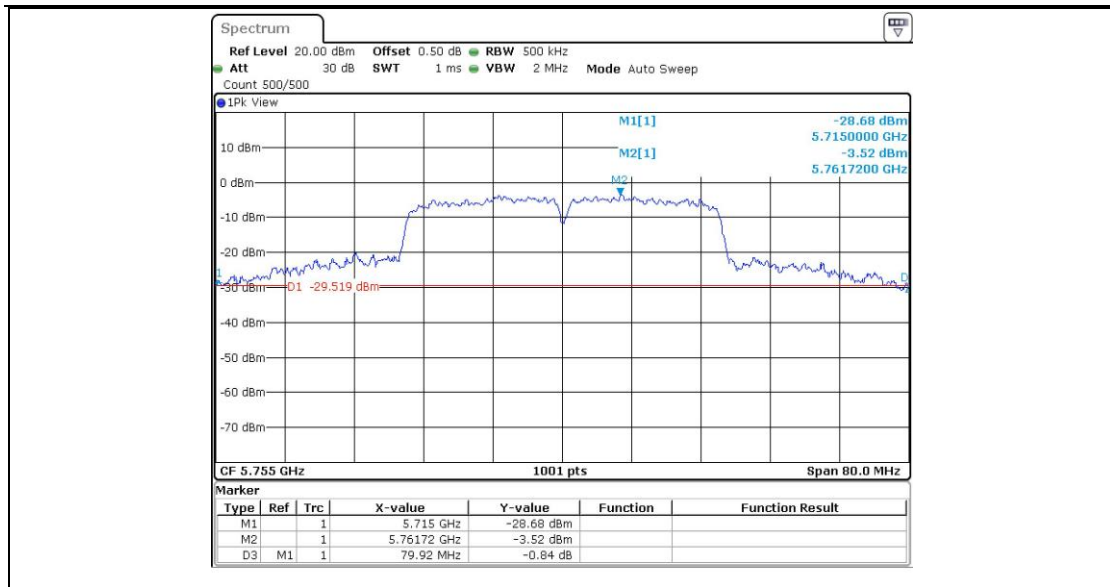
11N20SISO_Ant1_5825



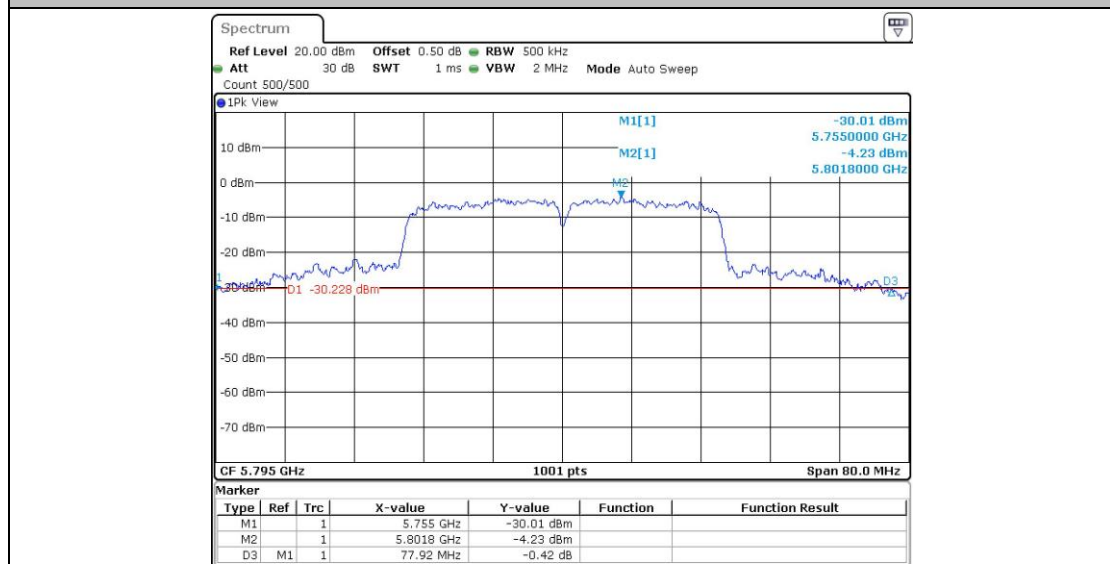
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



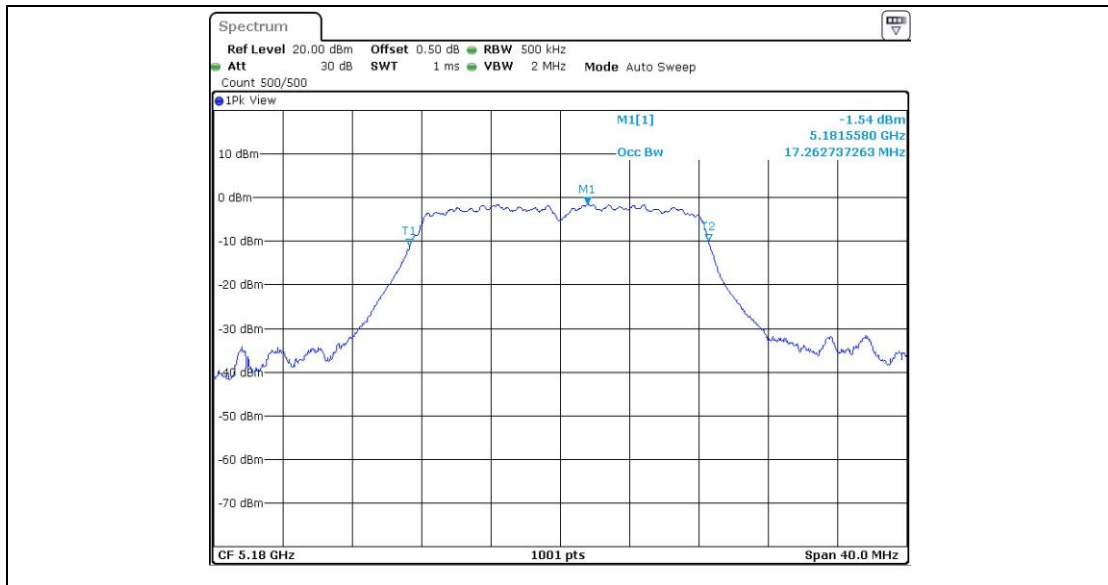
11N40SISO_Ant1_5795

Appendix A2: Occupied channel bandwidth

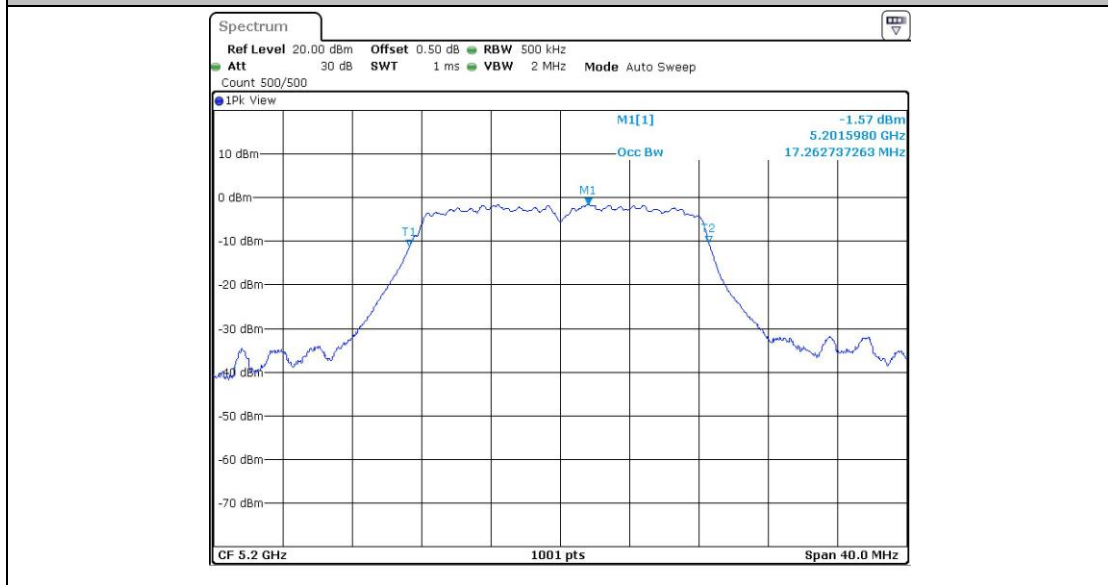
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.263	5171.289	5188.551	---	PASS
		5200	17.263	5191.289	5208.551	---	PASS
		5240	17.303	5231.289	5248.591	---	PASS
		5745	24.336	5733.092	5757.428	---	PASS
		5785	21.858	5774.131	5795.989	---	PASS
		5825	19.94	5815.250	5835.190	---	PASS
11N20SISO	Ant1	5180	18.102	5171.009	5189.111	---	PASS
		5200	18.142	5190.969	5209.111	---	PASS
		5240	18.102	5231.009	5249.111	---	PASS
		5745	26.254	5731.893	5758.147	---	PASS
		5785	24.256	5772.692	5796.948	---	PASS
		5825	22.018	5813.931	5835.949	---	PASS
11N40SISO	Ant1	5190	35.804	5172.258	5208.062	---	PASS
		5230	35.804	5212.258	5248.062	---	PASS
		5755	44.595	5732.143	5776.738	---	PASS
		5795	40.519	5773.661	5814.181	---	PASS

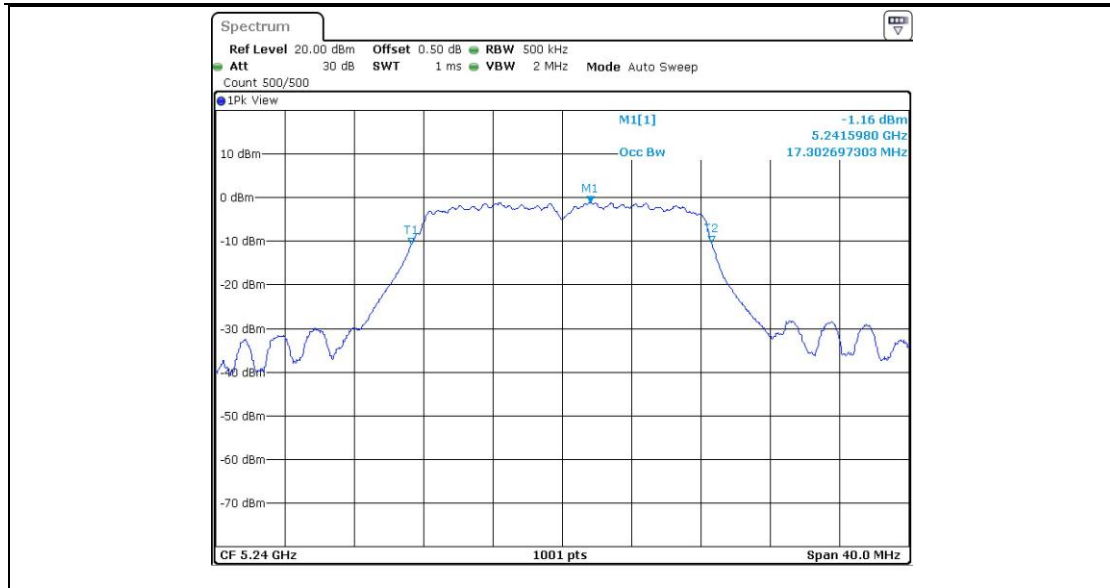
Test Graphs



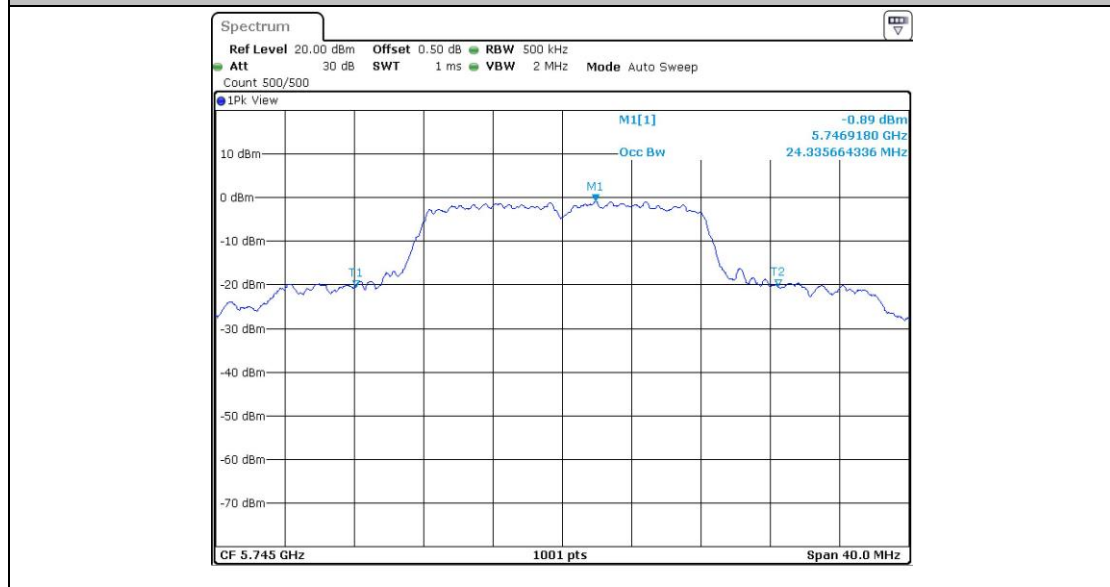
11A_Ant1_5180



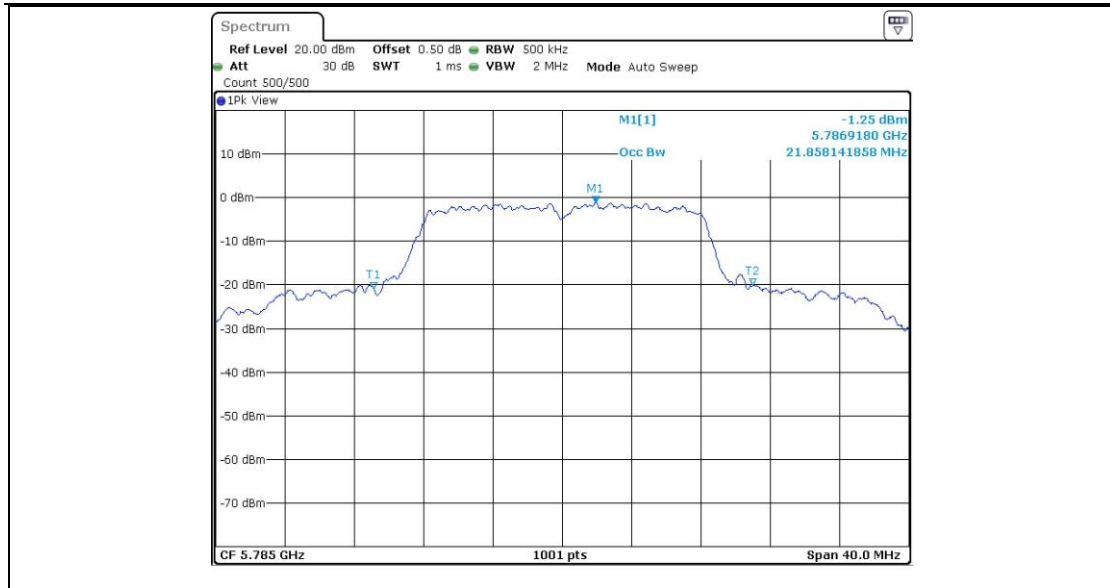
11A_Ant1_5200



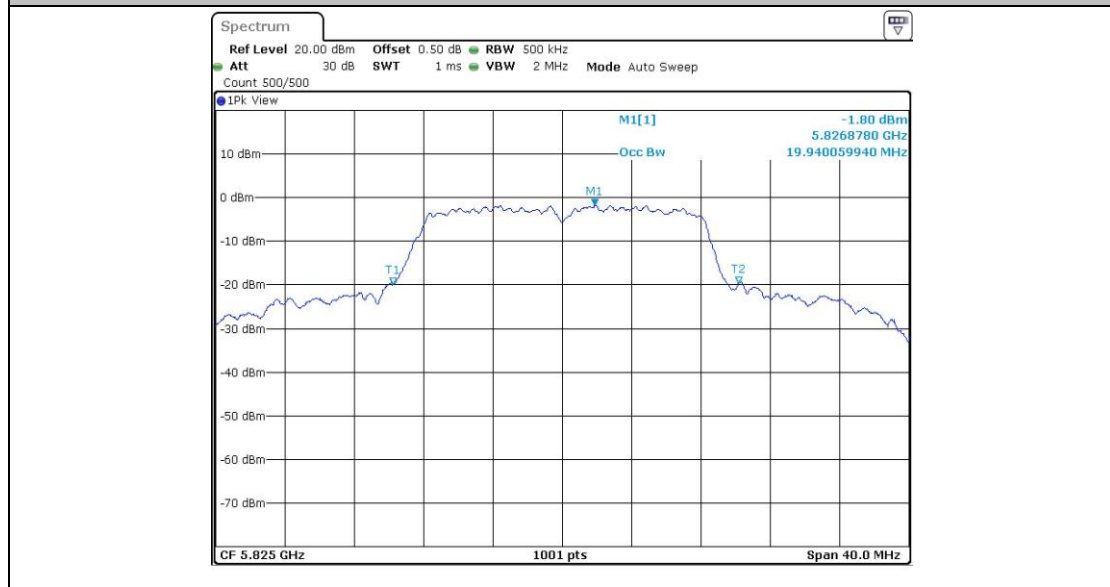
11A_Ant1_5240



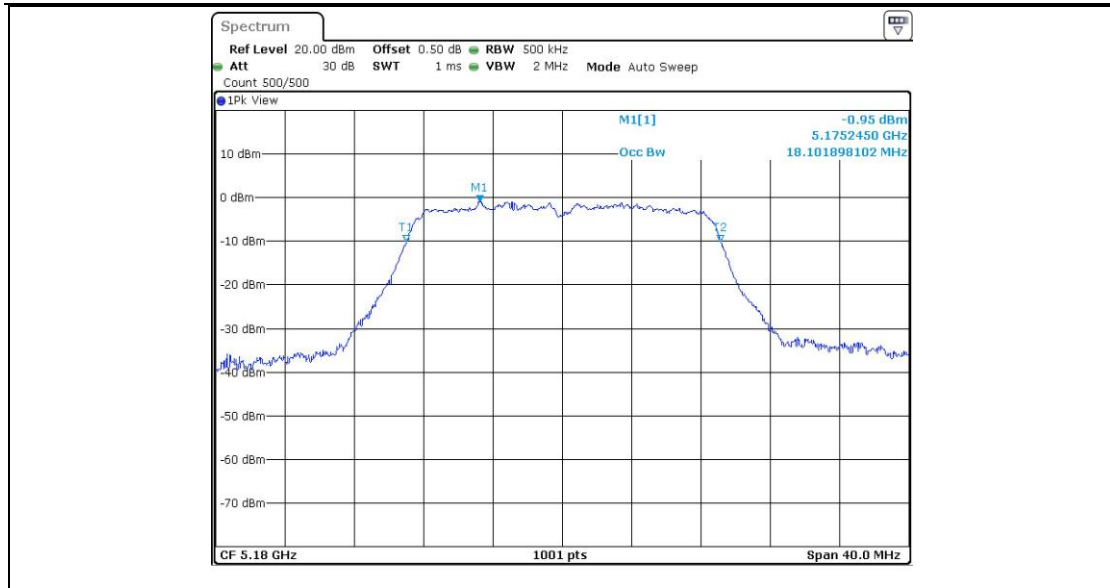
11A_Ant1_5745



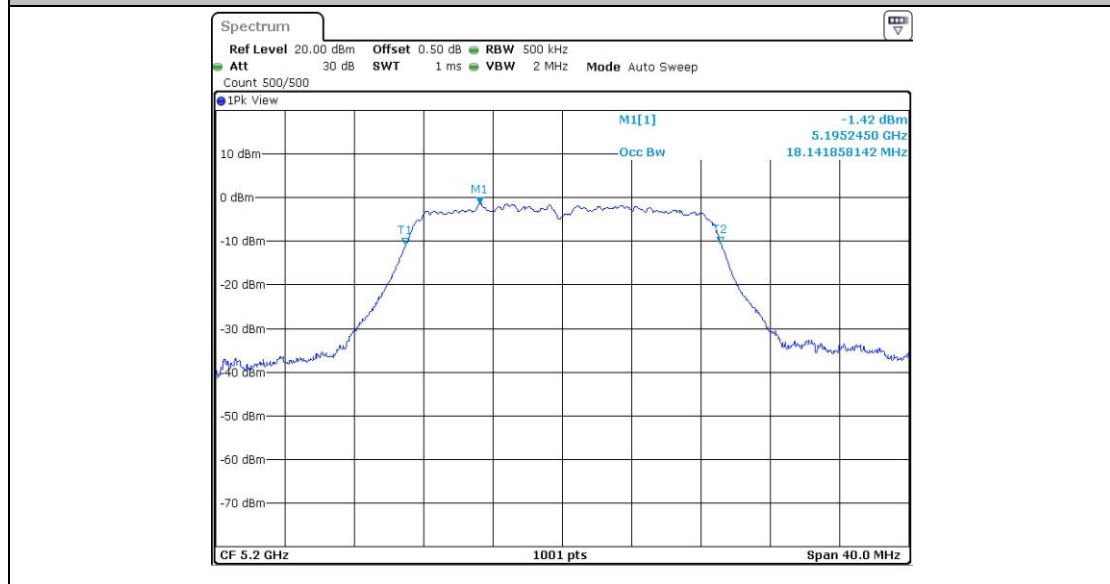
11A_Ant1_5785



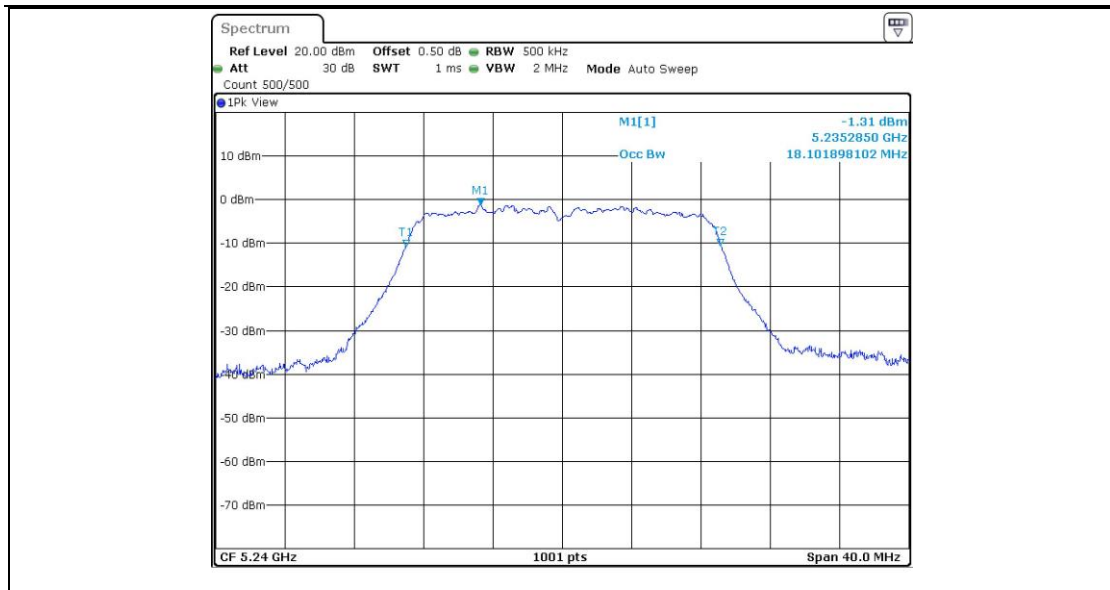
11A_Ant1_5825



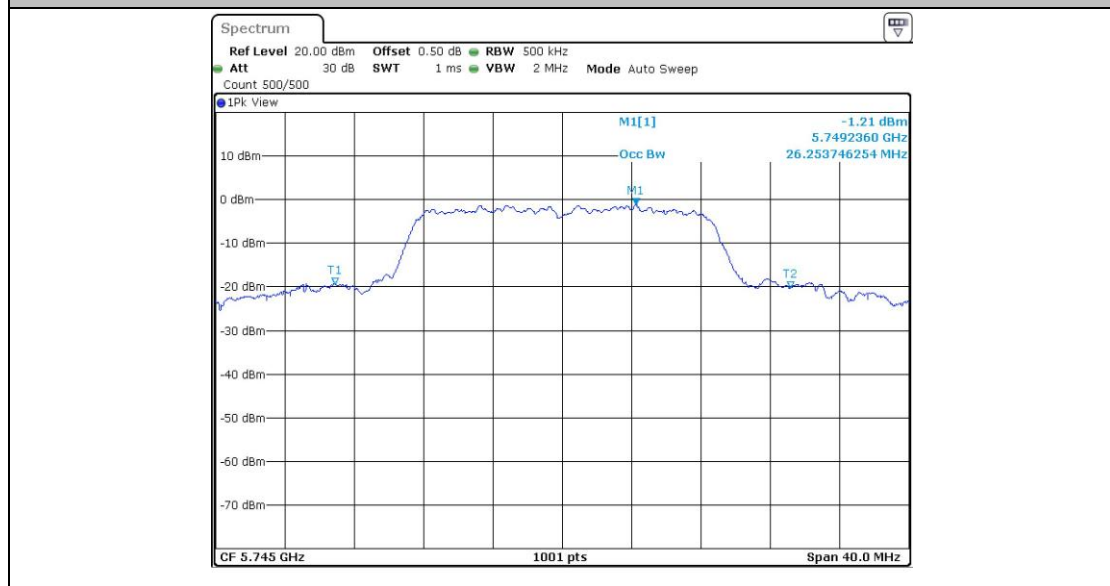
11N20SISO_Ant1_5180



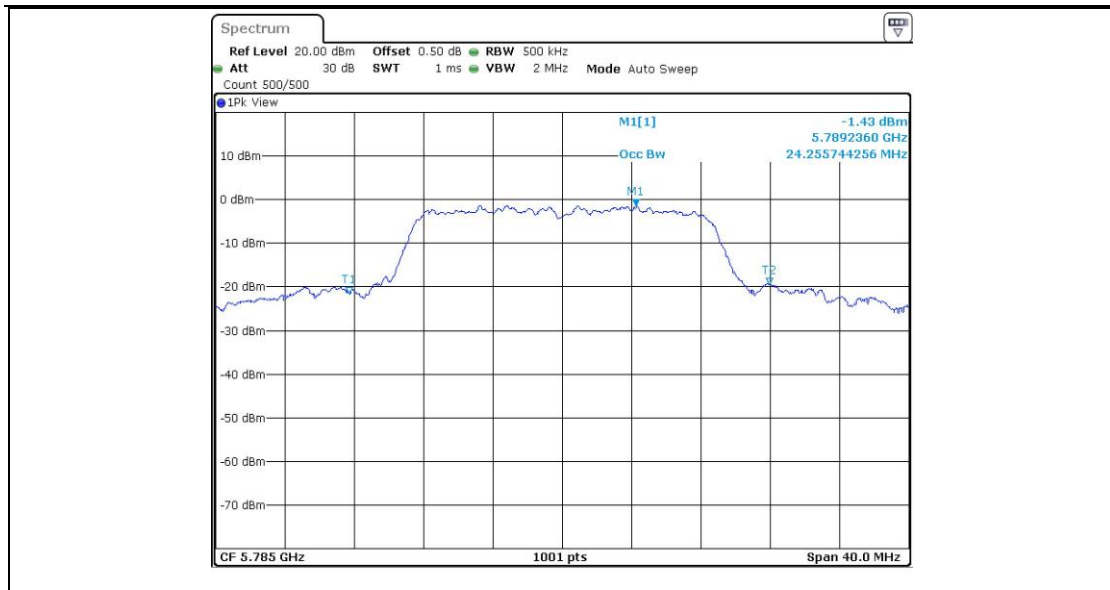
11N20SISO_Ant1_5200



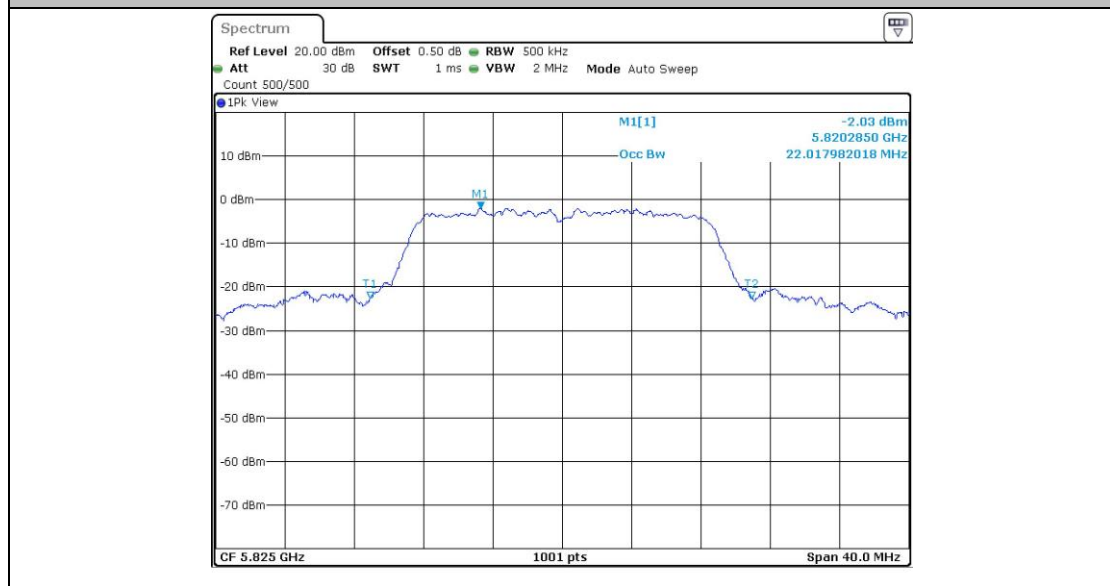
11N20SISO_Ant1_5240



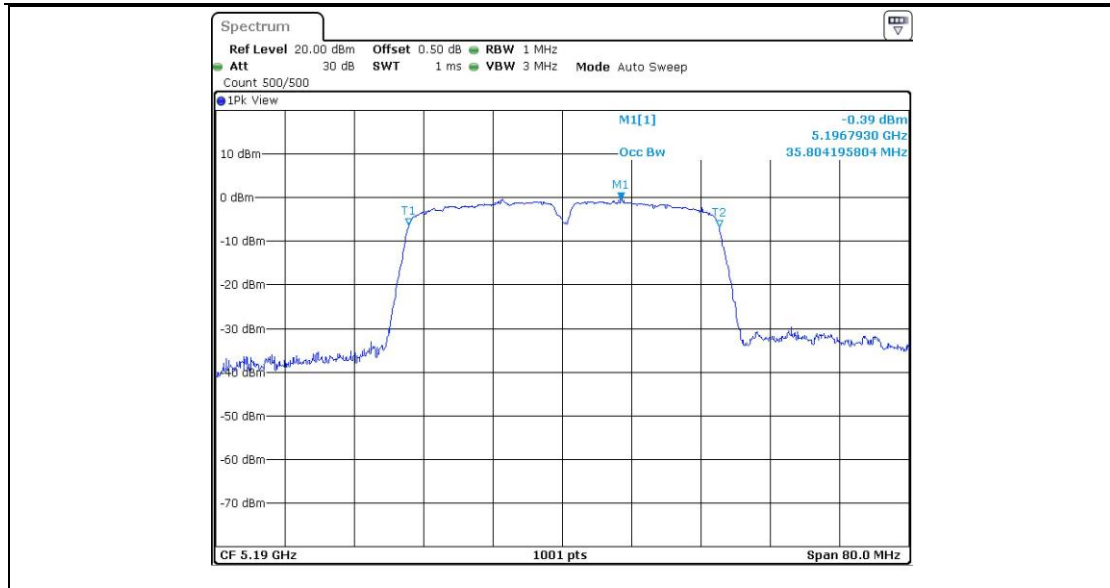
11N20SISO_Ant1_5745



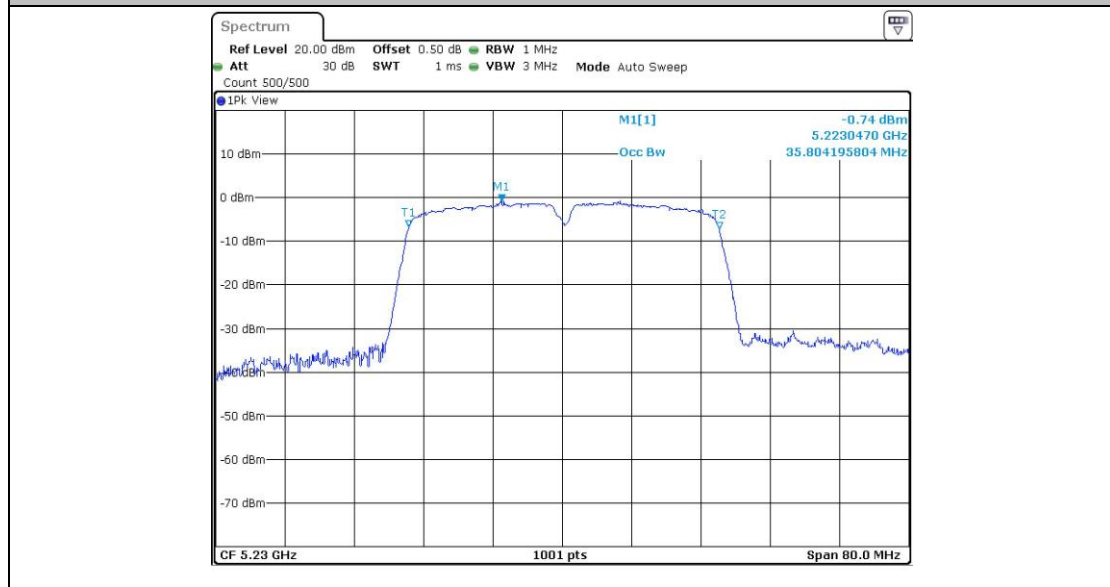
11N20SISO_Ant1_5785



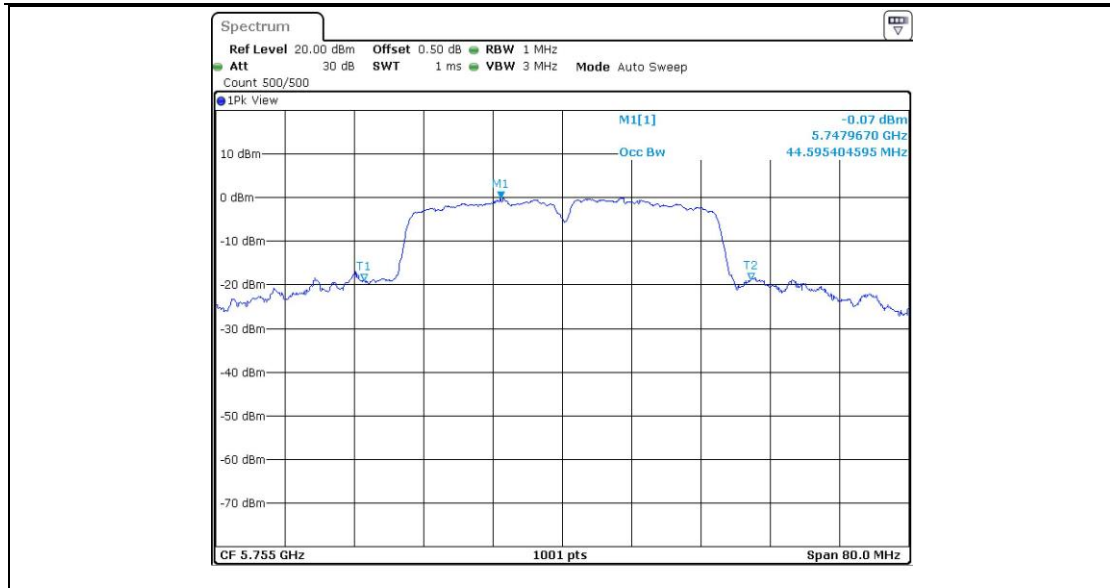
11N20SISO_Ant1_5825



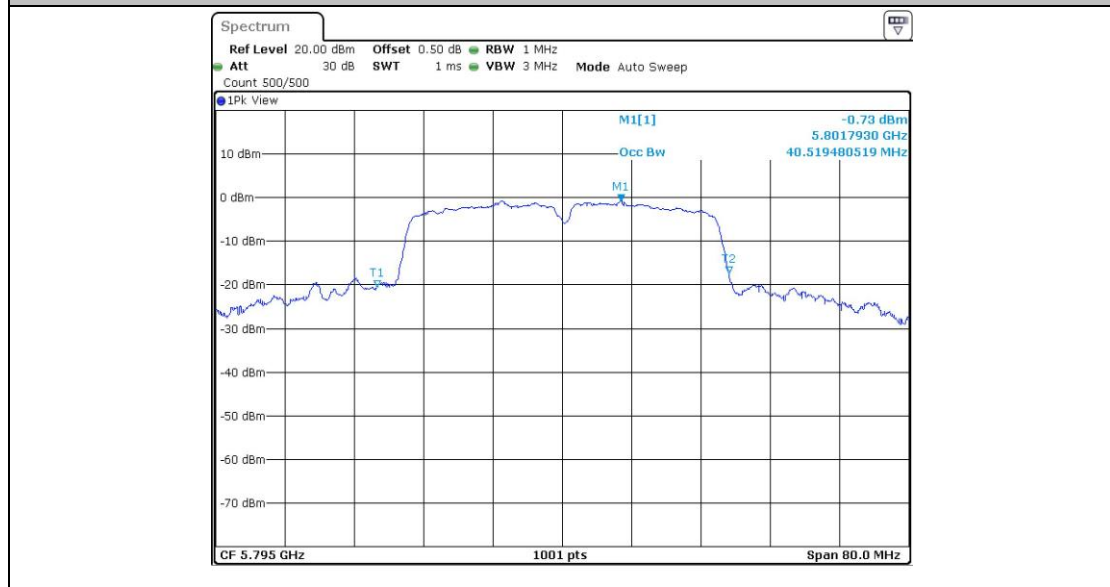
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755

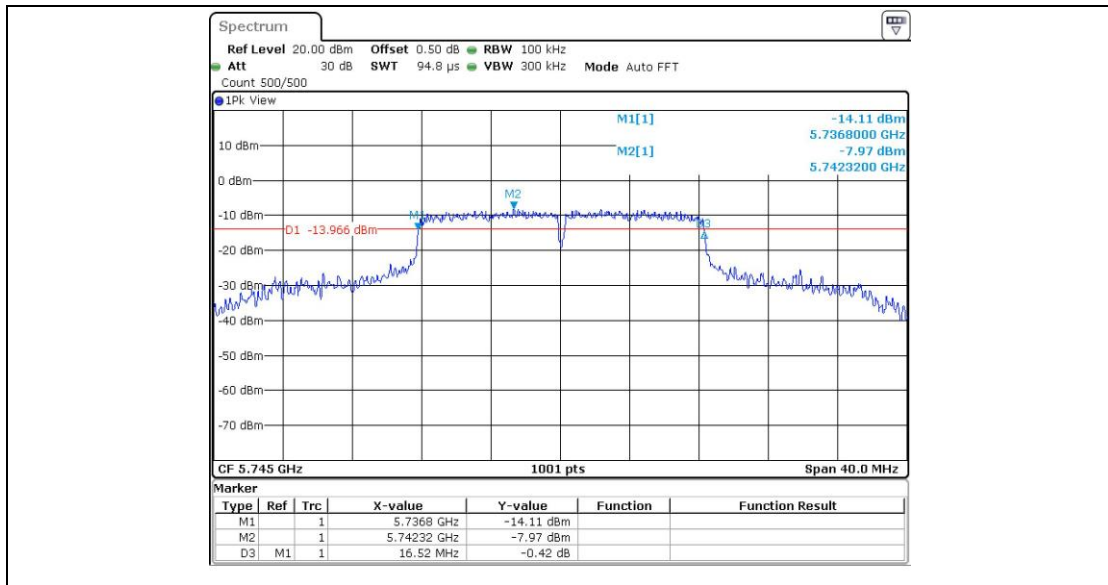


11N40SISO_Ant1_5795

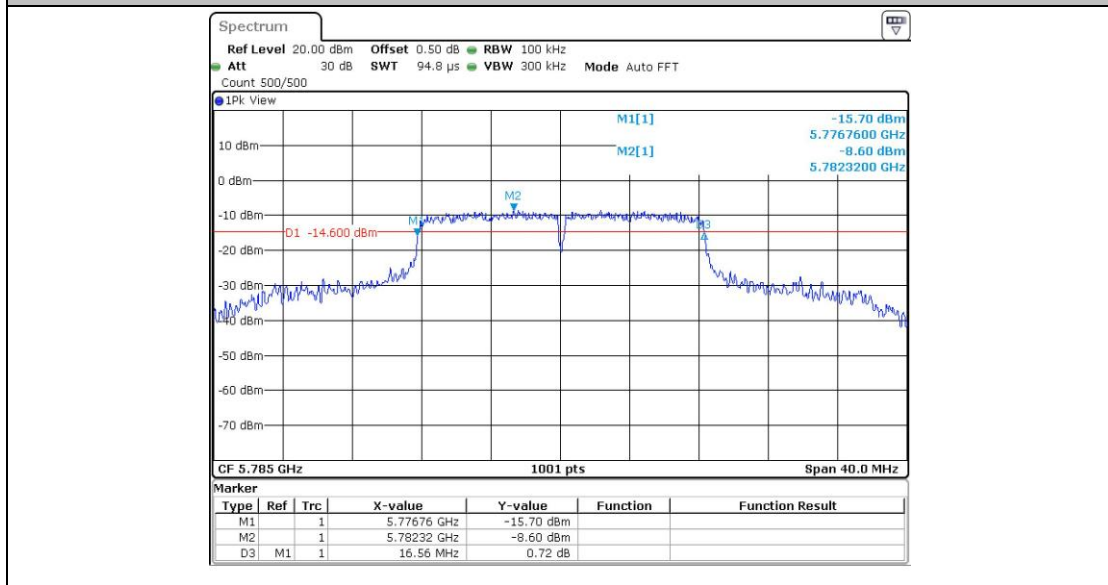
Appendix A3: Min emission bandwidth**Test Result**

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.520	5736.800	5753.320	0.5	PASS
		5785	16.560	5776.760	5793.320	0.5	PASS
		5825	16.560	5816.760	5833.320	0.5	PASS
11N20SISO	Ant1	5745	17.720	5736.200	5753.920	0.5	PASS
		5785	17.760	5776.160	5793.920	0.5	PASS
		5825	17.680	5816.240	5833.920	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.840	5773.320	0.5	PASS
		5795	36.480	5776.840	5813.320	0.5	PASS

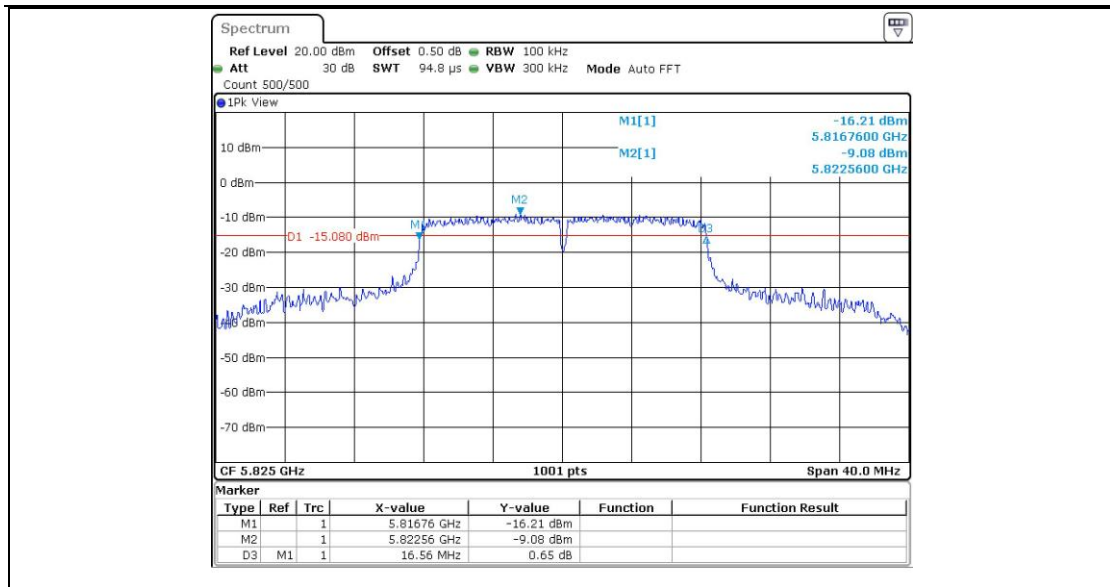
Test Graphs



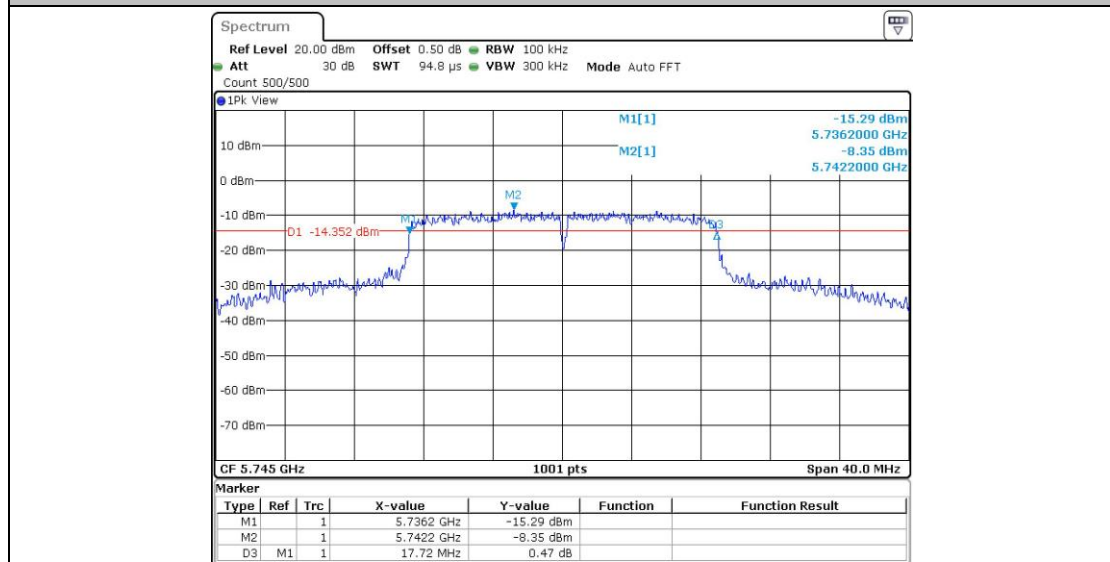
11A_Ant1_5745



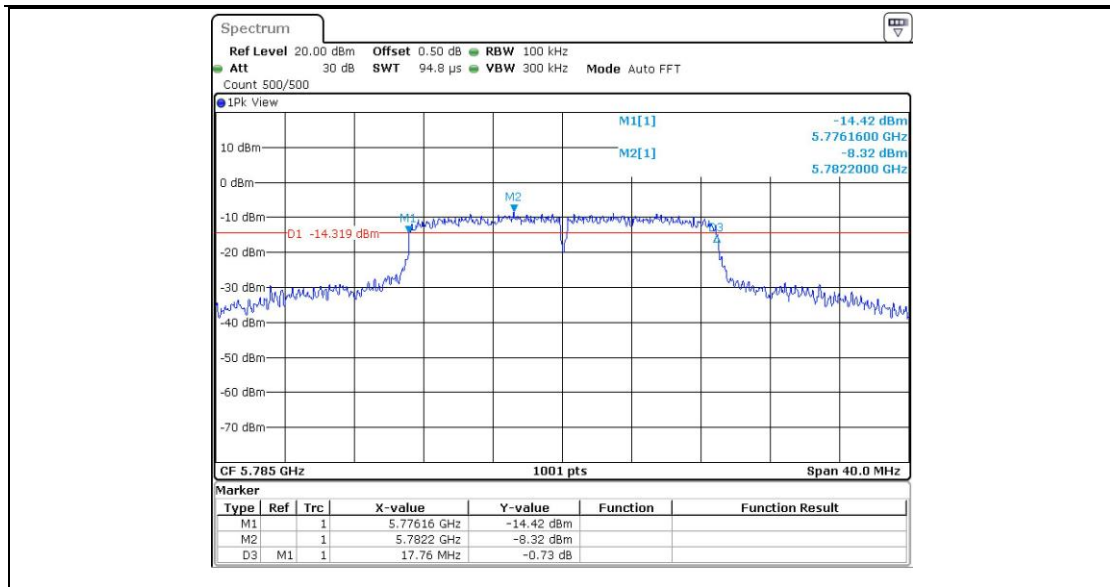
11A_Ant1_5785



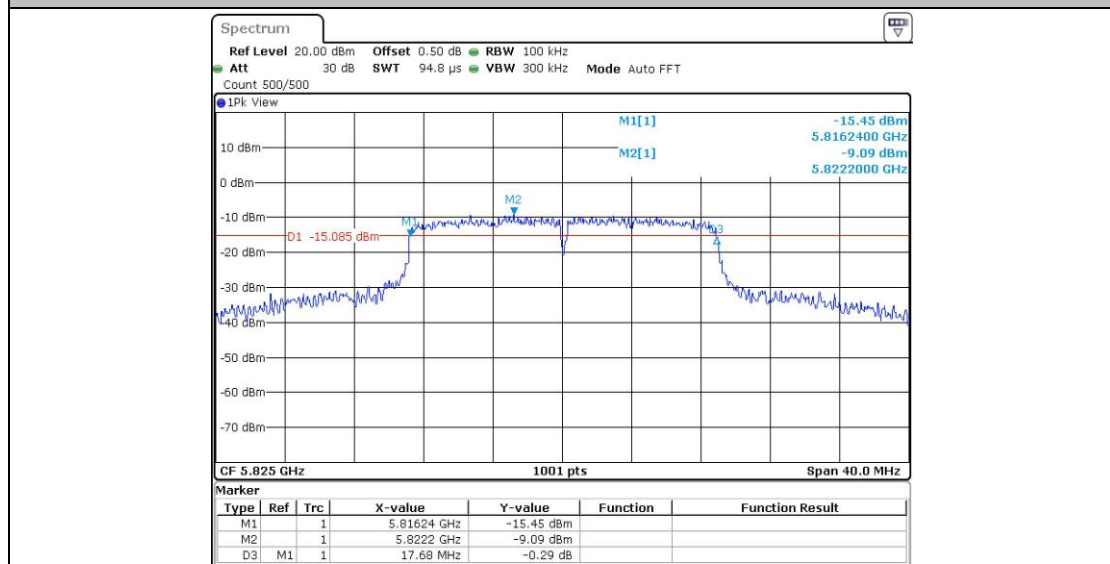
11A_Ant1_5825



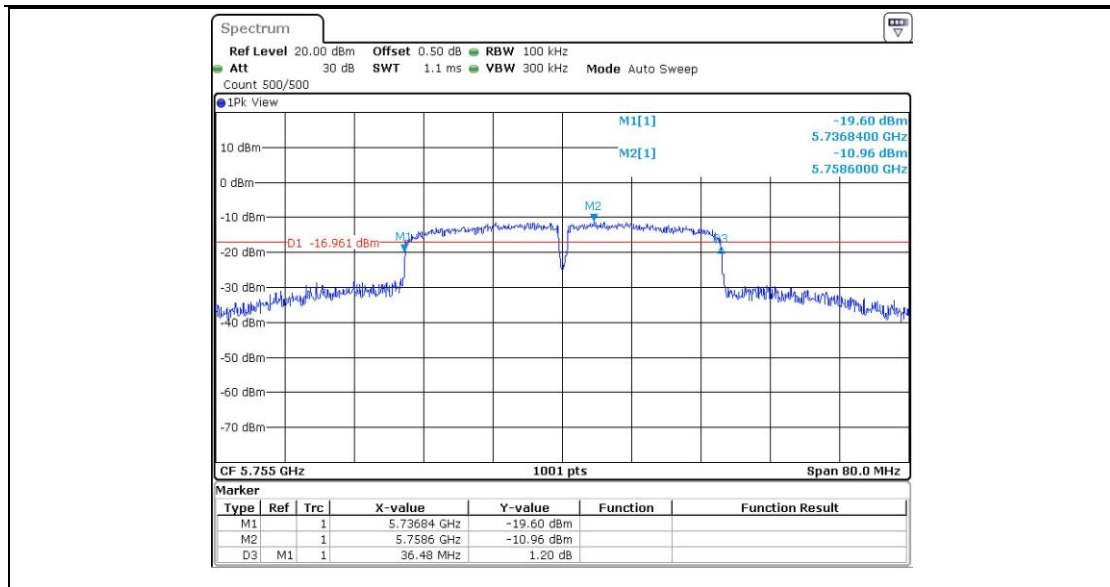
11N20SISO_Ant1_5745



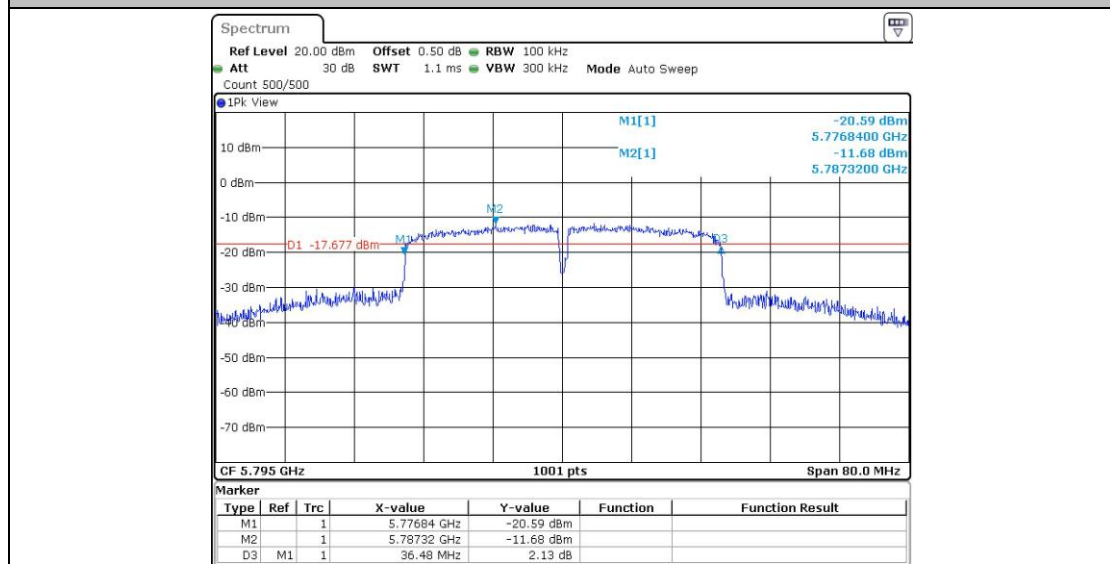
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

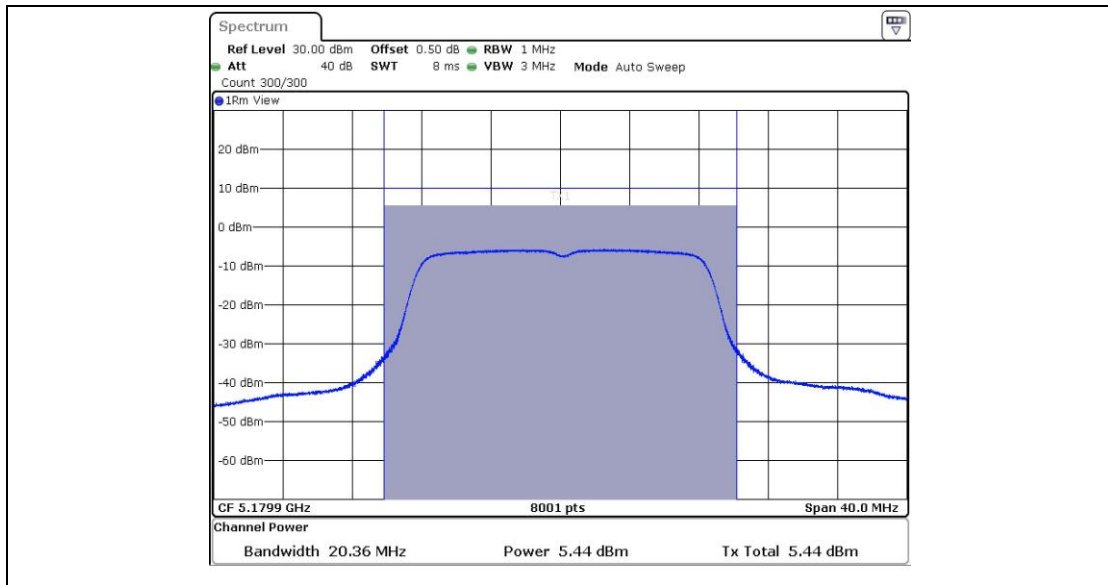
Appendix B1: Maximum conducted output power

Test Result

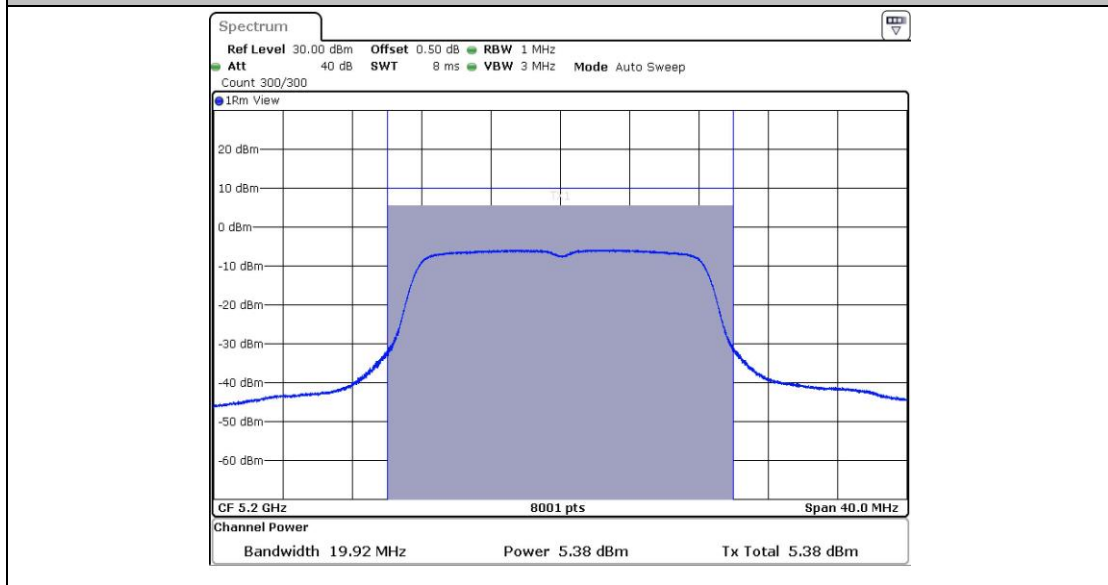
TestMode	Antenna	Channel	Result	Limit	Verdict
11A	Ant1	5180	5.44	<=23.98	PASS
		5200	5.38	<=23.98	PASS
		5240	5.44	<=23.98	PASS
		5745	5.50	<=30	PASS
		5785	5.42	<=30	PASS
		5825	5.09	<=30	PASS
11N20SISO	Ant1	5180	5.45	<=23.98	PASS
		5200	5.24	<=23.98	PASS
		5240	5.32	<=23.98	PASS
		5745	5.30	<=30	PASS
		5785	5.35	<=30	PASS
		5825	5.21	<=30	PASS
11N40SISO	Ant1	5190	5.31	<=23.98	PASS
		5230	5.25	<=23.98	PASS
		5755	5.30	<=30	PASS
		5795	5.09	<=30	PASS

Note: The Duty Cycle Factor is compensated in the graph.

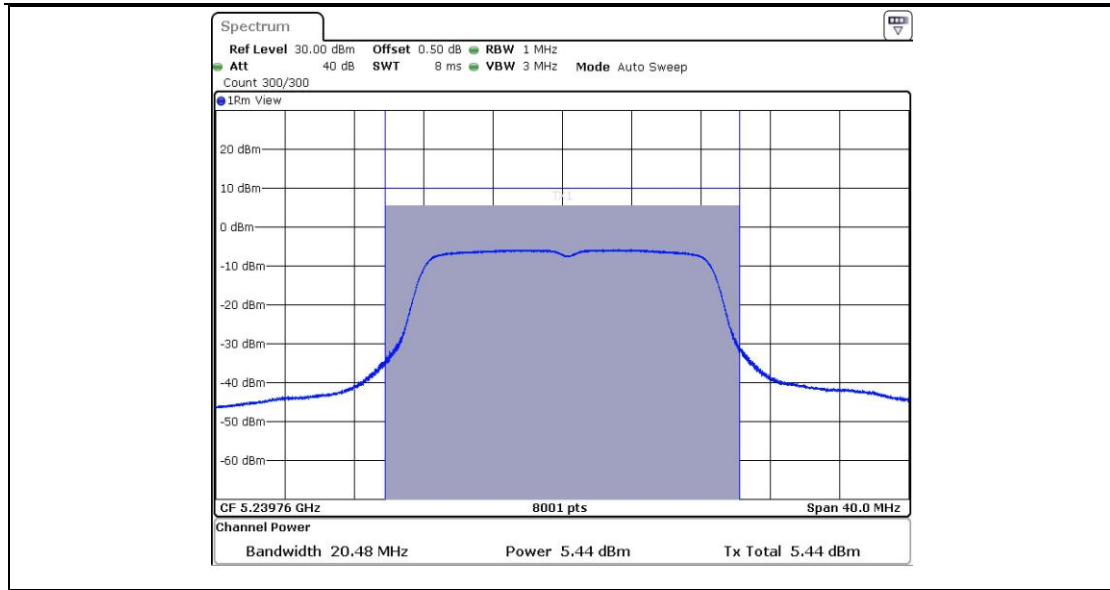
Test Graphs



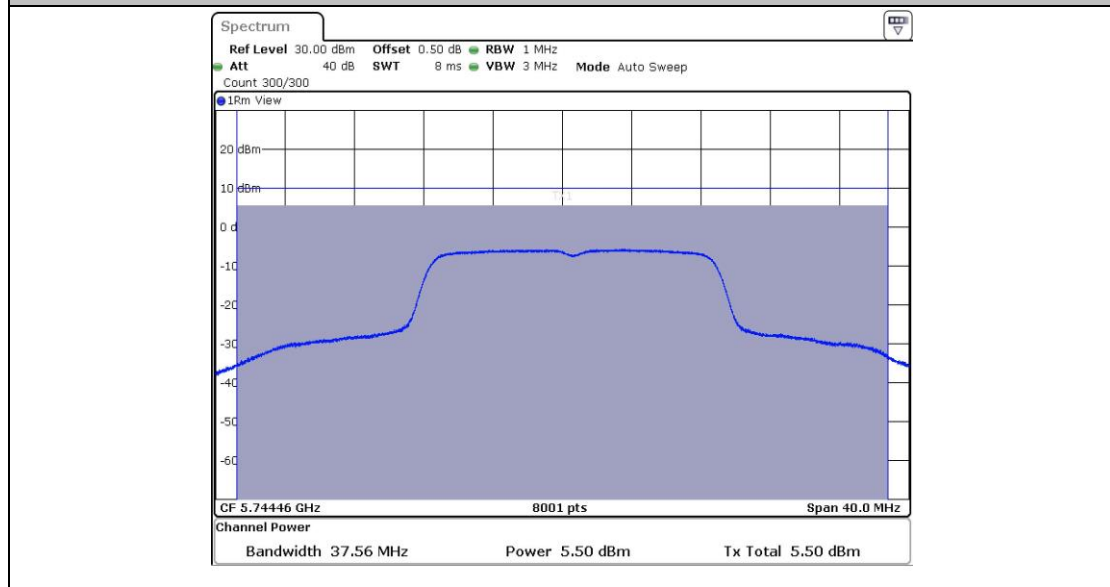
11A_Ant1_5180



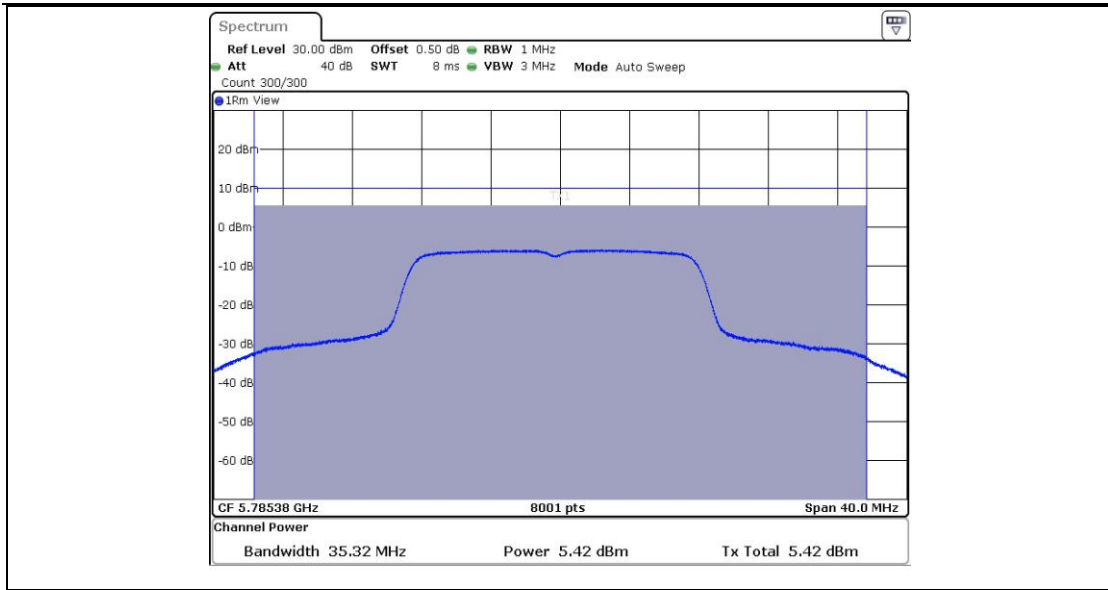
11A_Ant1_5200



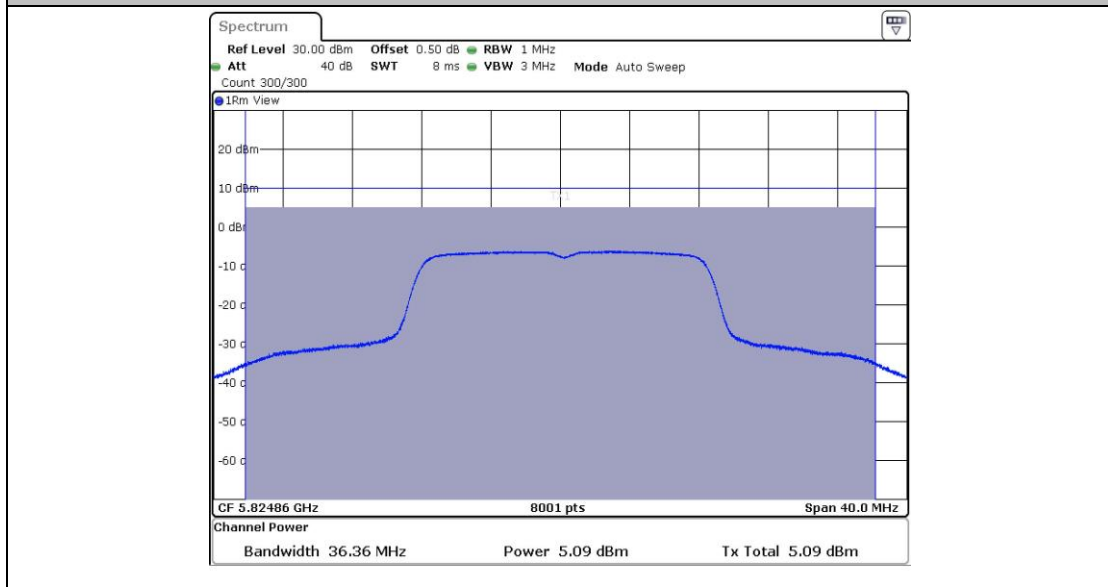
11A_Ant1_5240



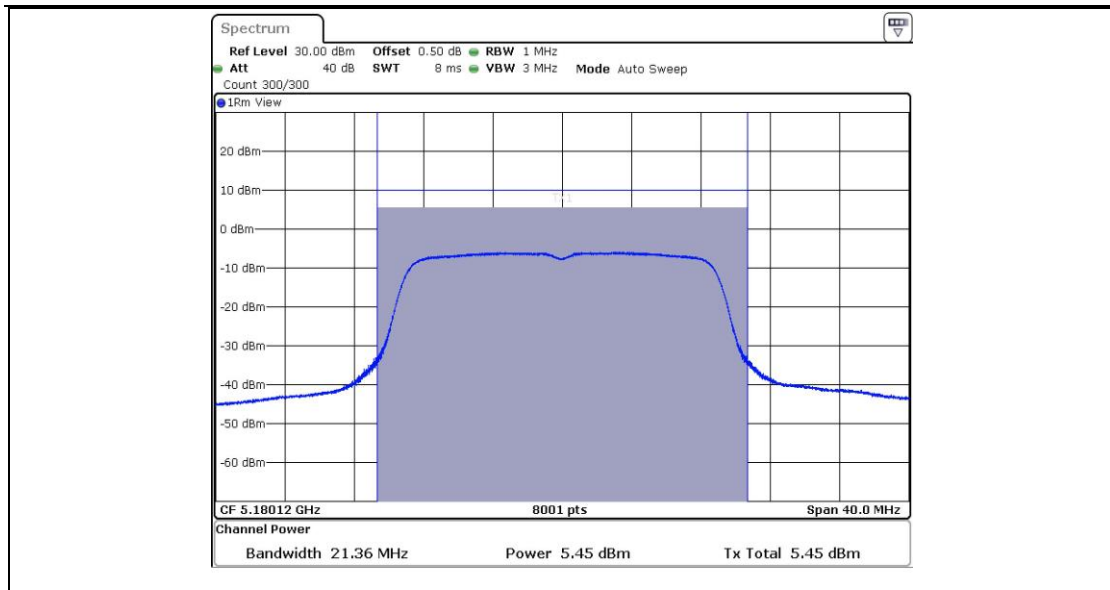
11A_Ant1_5745



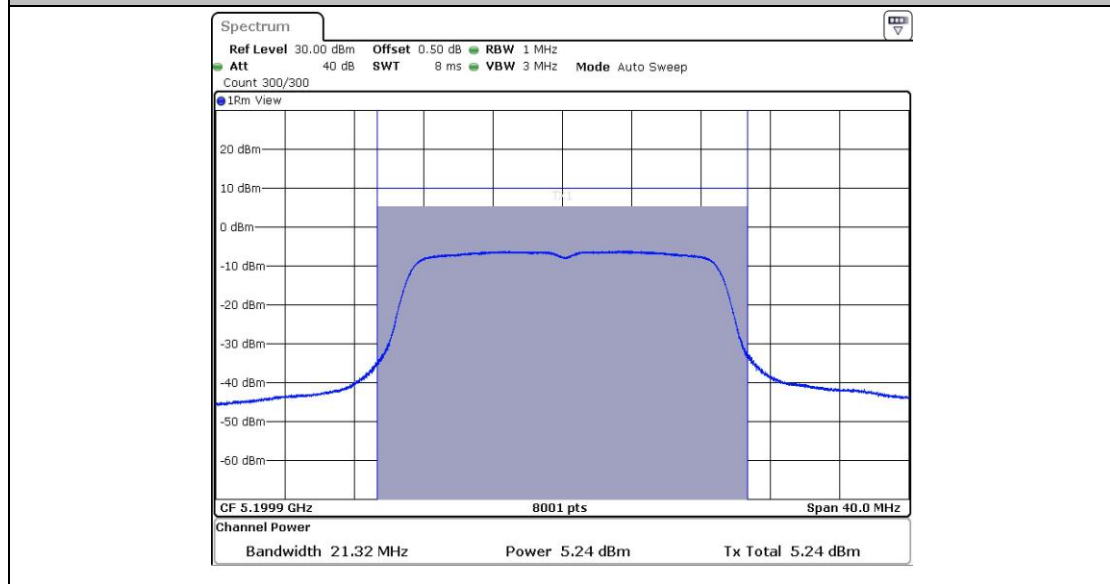
11A_Ant1_5785



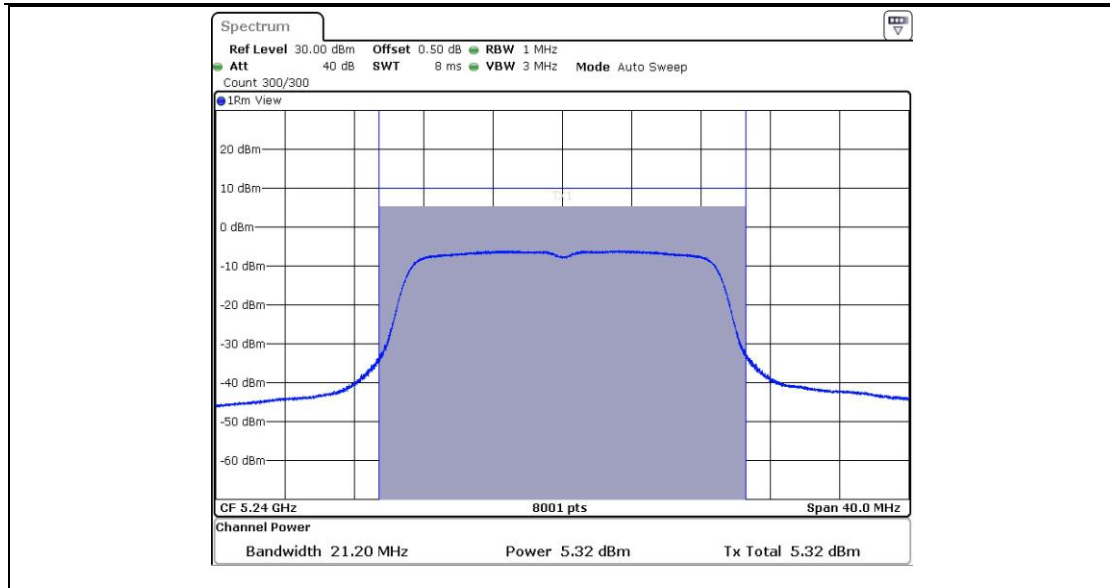
11A_Ant1_5825



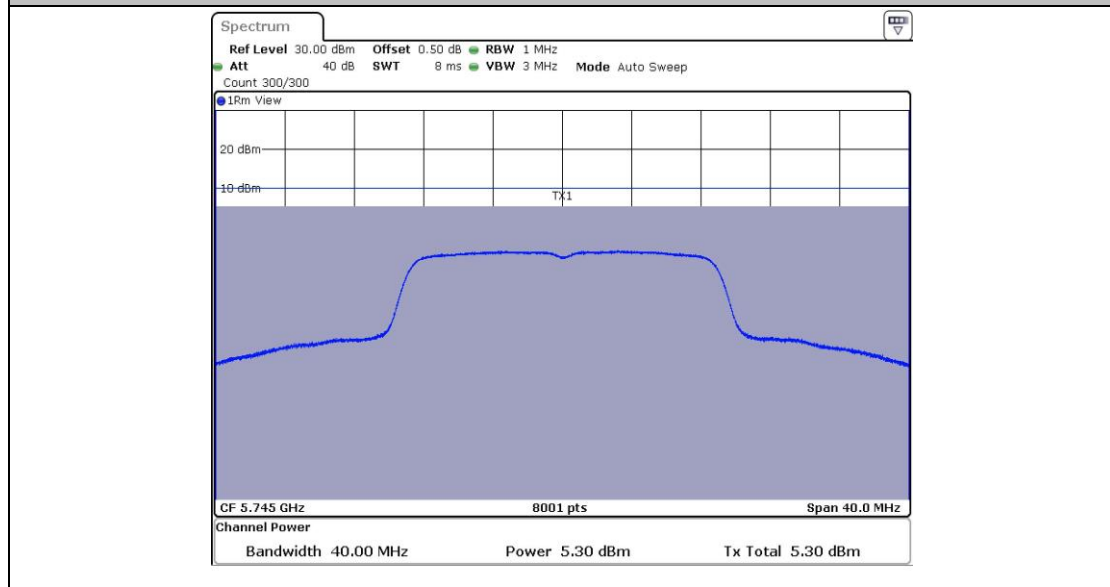
11N20SISO_Ant1_5180



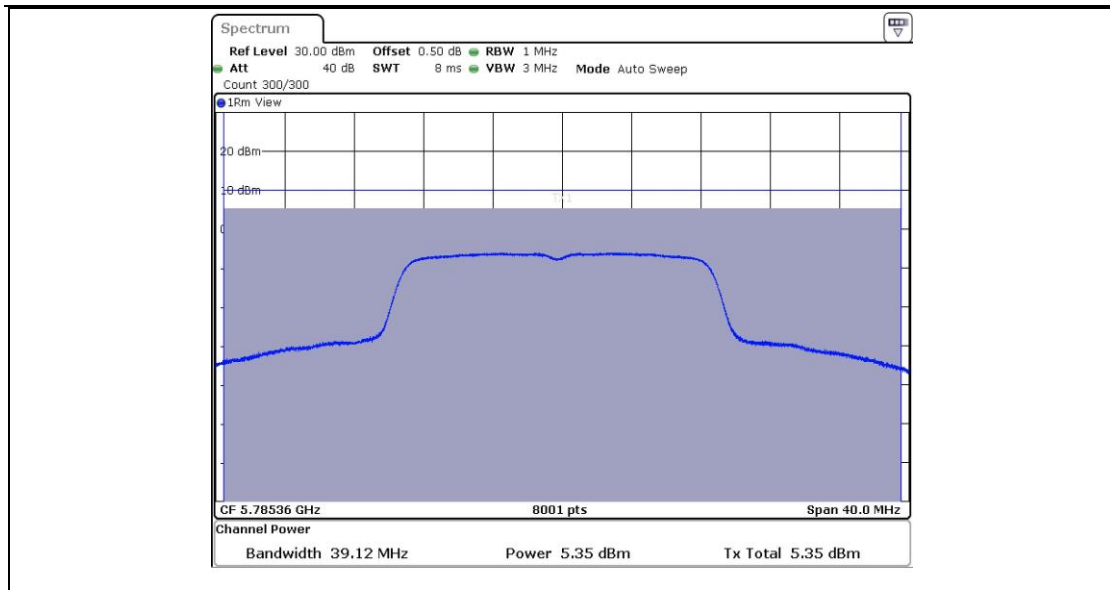
11N20SISO_Ant1_5200



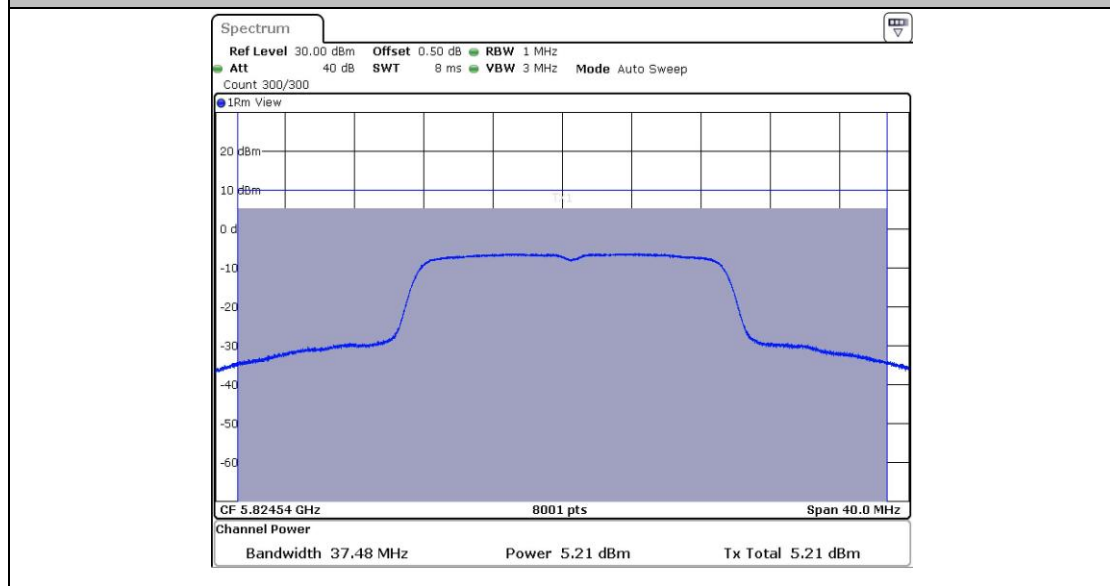
11N20SISO_Ant1_5240



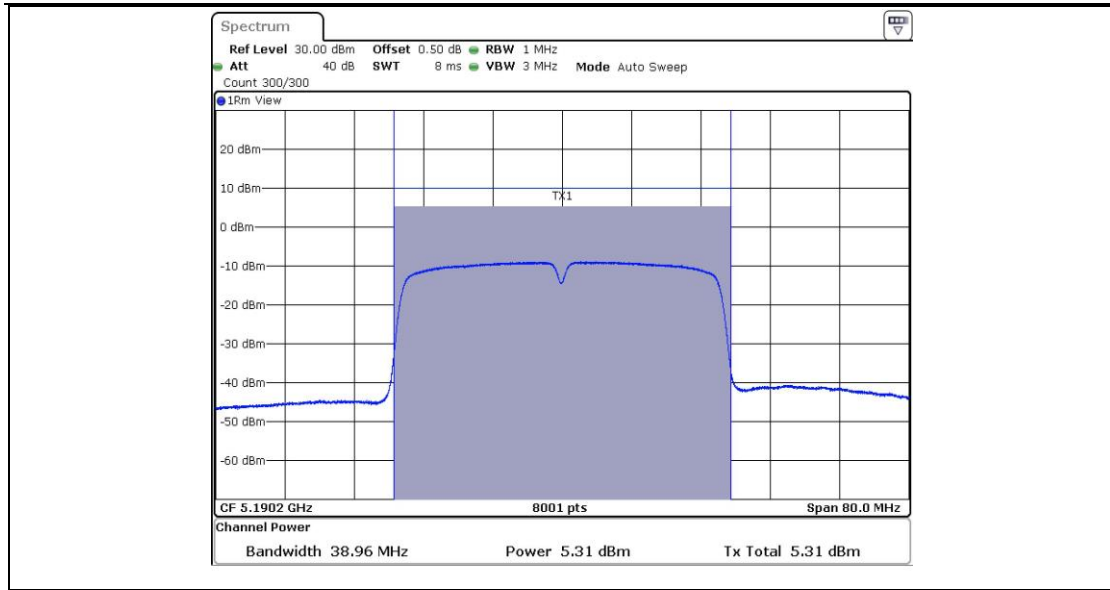
11N20SISO_Ant1_5745



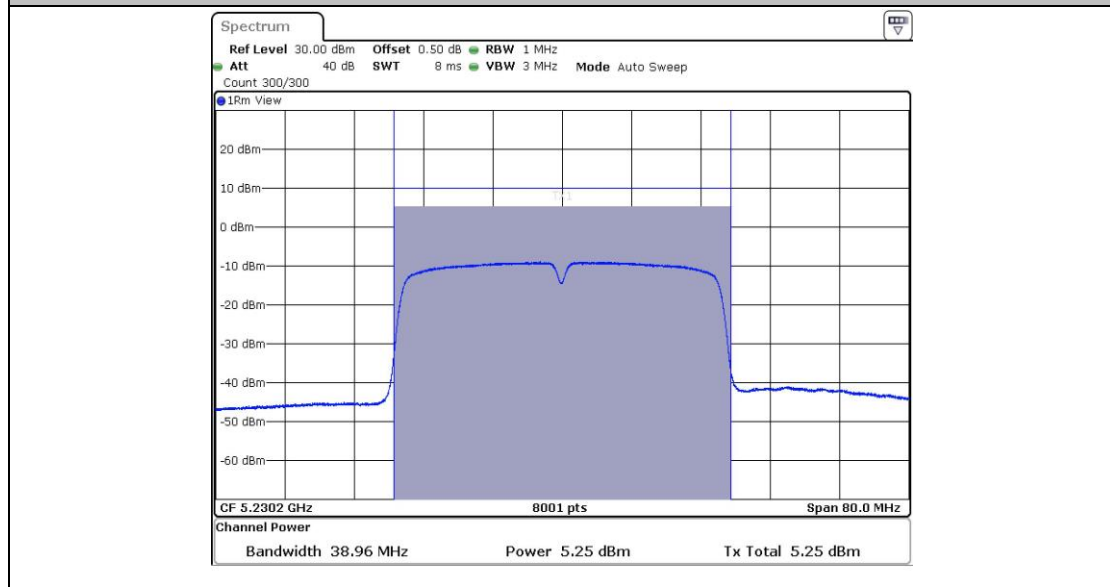
11N20SISO_Ant1_5785



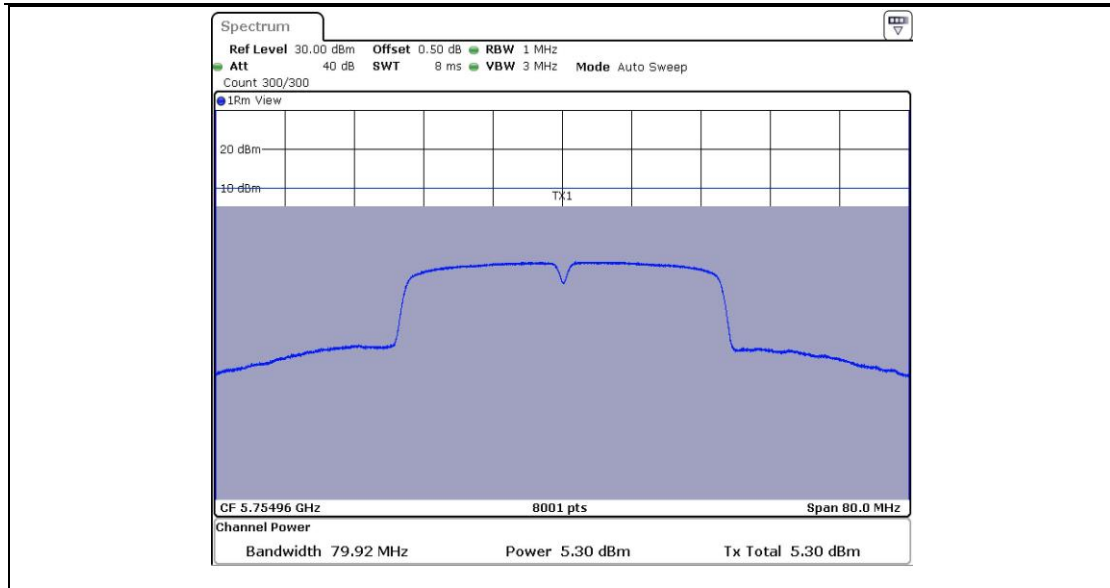
11N20SISO_Ant1_5825



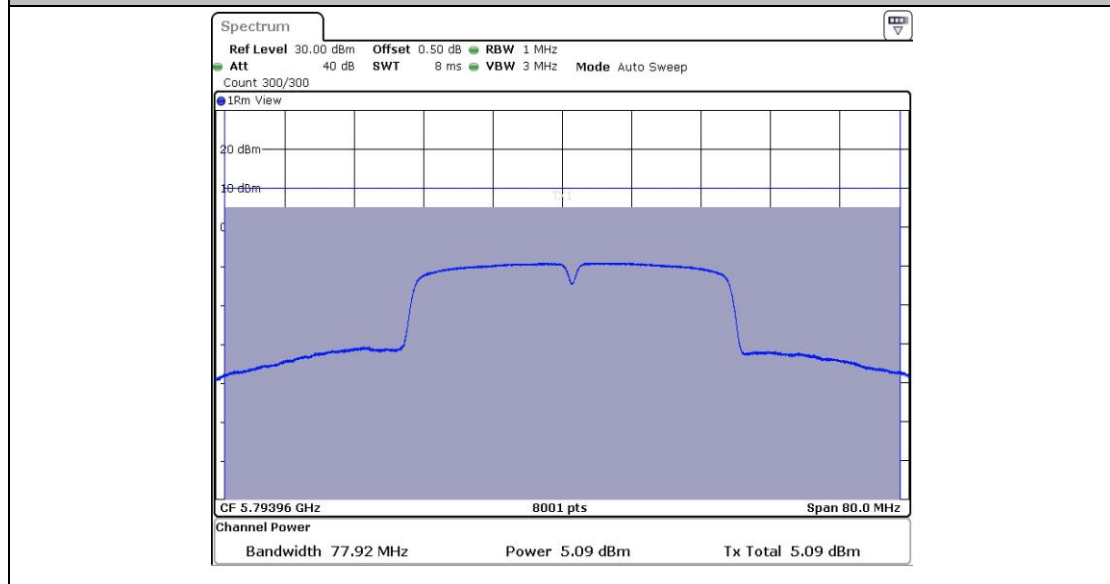
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

Appendix B2: Max EIRP

Test Result

Test Mode	Antenna	Frequency (MHz)	Output Power (dBm)	Gain (dBi)	E.I.R.P. (dBm)	Limit	Verdict
11A	Ant1	5180	5.44	2.5	7.94	36	PASS
		5200	5.38	2.5	7.88	36	PASS
		5240	5.44	2.5	7.94	36	PASS
		5745	5.50	2.5	8.00	36	PASS
		5785	5.42	2.5	7.92	36	PASS
		5825	5.09	2.5	7.59	36	PASS
11N20SISO	Ant1	5180	5.45	2.5	7.95	36	PASS
		5200	5.24	2.5	7.74	36	PASS
		5240	5.32	2.5	7.82	36	PASS
		5745	5.30	2.5	7.80	36	PASS
		5785	5.35	2.5	7.85	36	PASS
		5825	5.21	2.5	7.71	36	PASS
11N40SISO	Ant1	5190	5.31	2.5	7.81	36	PASS
		5230	5.25	2.5	7.75	36	PASS
		5755	5.30	2.5	7.80	36	PASS
		5795	5.09	2.5	7.59	36	PASS

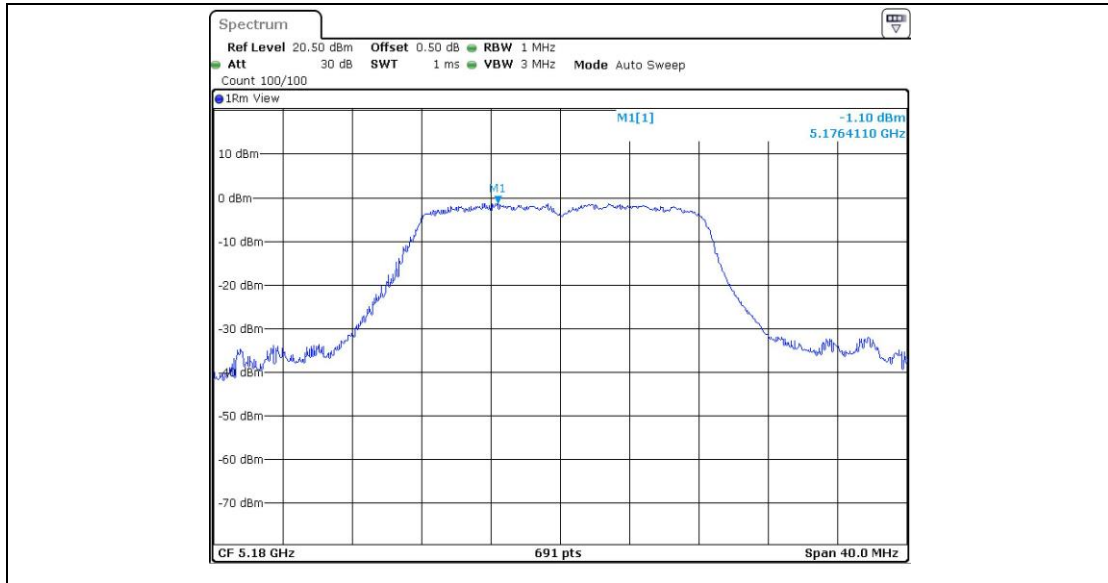
Appendix C: Maximum power spectral density

Test Result

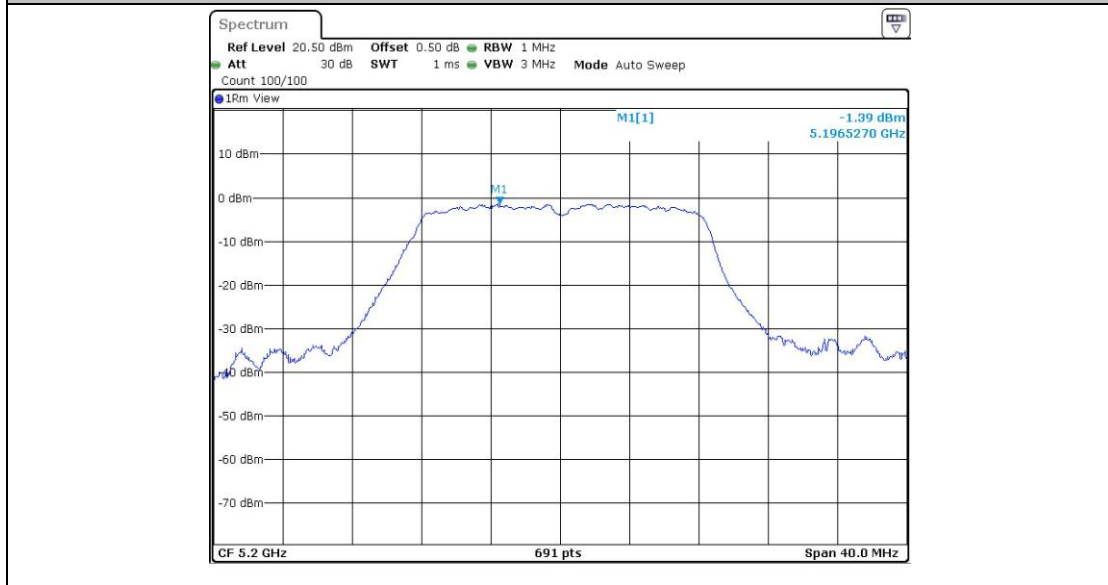
TestMode	Antenna	Channel	Result	Limit	Verdict
11A	Ant1	5180	-1.1	<=11	PASS
		5200	-1.39	<=11	PASS
		5240	-1.33	<=11	PASS
		5745	-2.08	<=30	PASS
		5785	-2.04	<=30	PASS
		5825	-2.43	<=30	PASS
11N20SISO	Ant1	5180	-0.72	<=11	PASS
		5200	-1.38	<=11	PASS
		5240	-1.22	<=11	PASS
		5745	-2.34	<=30	PASS
		5785	-2.12	<=30	PASS
		5825	-2.67	<=30	PASS
11N40SISO	Ant1	5190	-3.73	<=11	PASS
		5230	-3.69	<=11	PASS
		5755	-5.2	<=30	PASS
		5795	-5.29	<=30	PASS

Note: The Duty Cycle Factor is compensated in the graph.

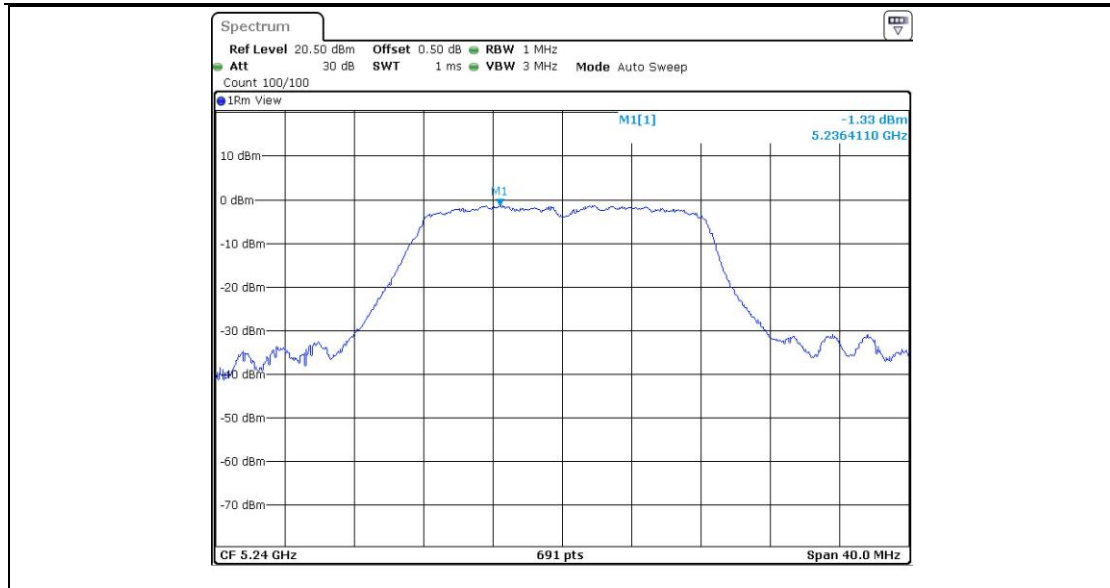
Test Graphs



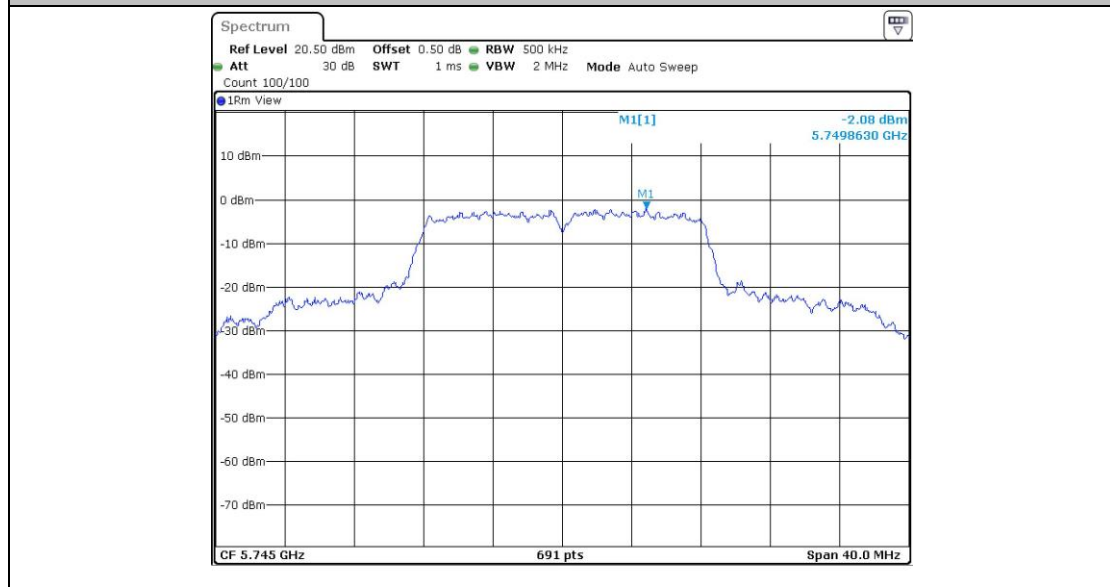
11A_Ant1_5180



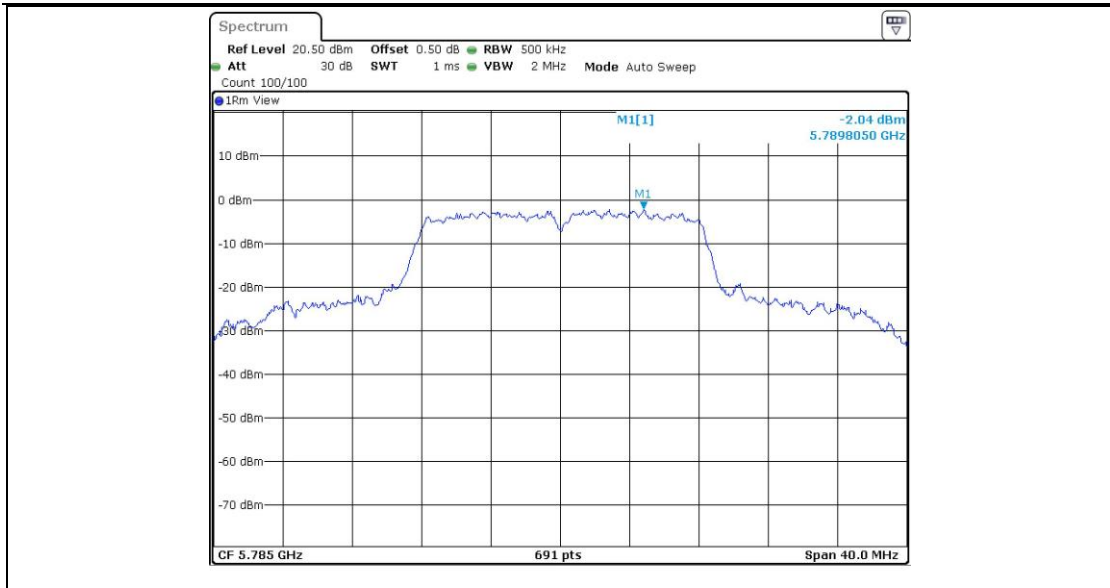
11A_Ant1_5200



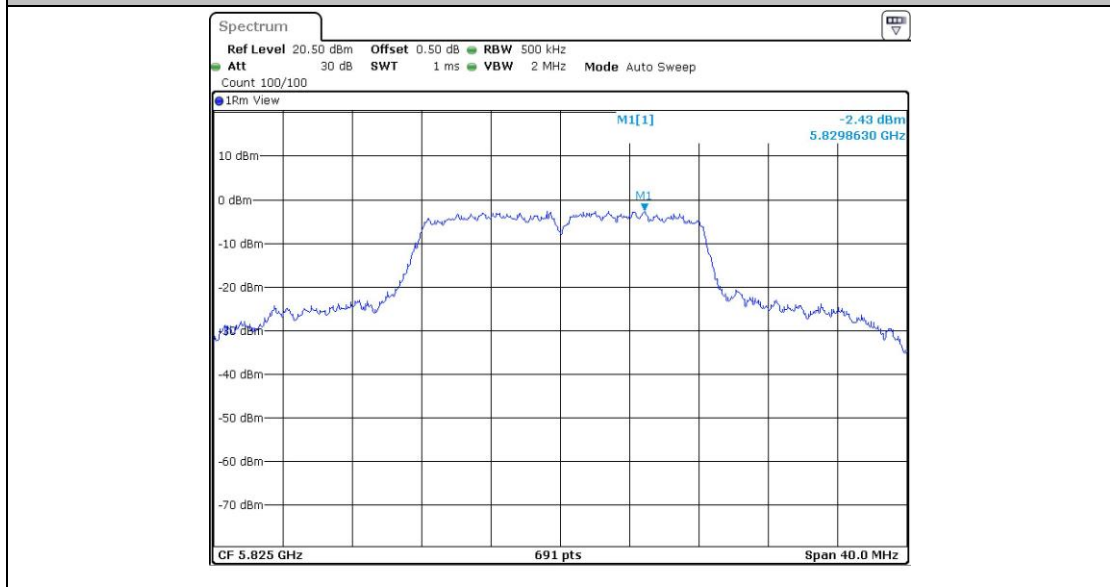
11A_Ant1_5240



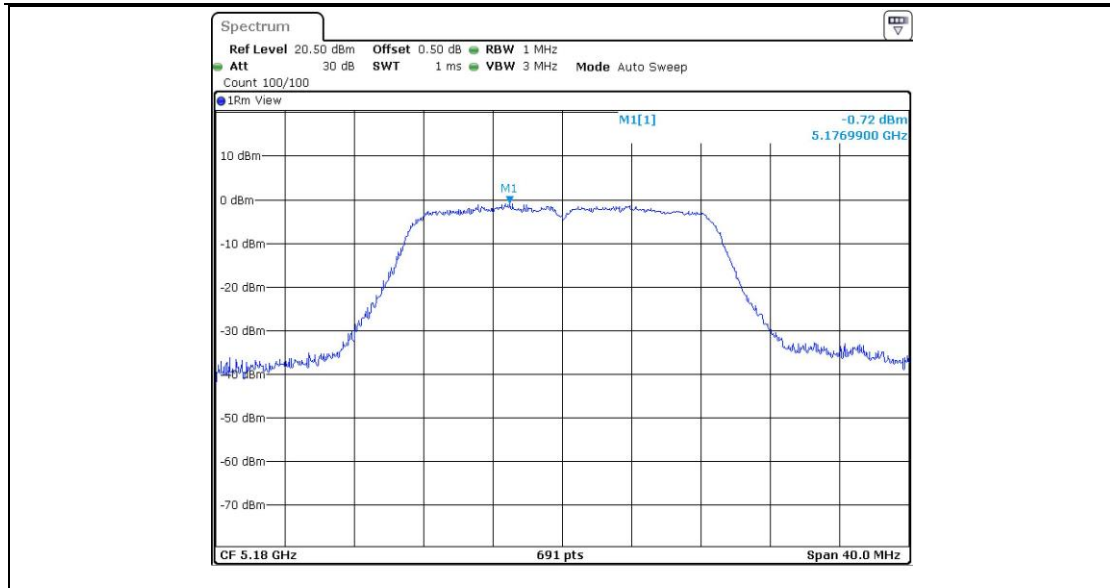
11A_Ant1_5745



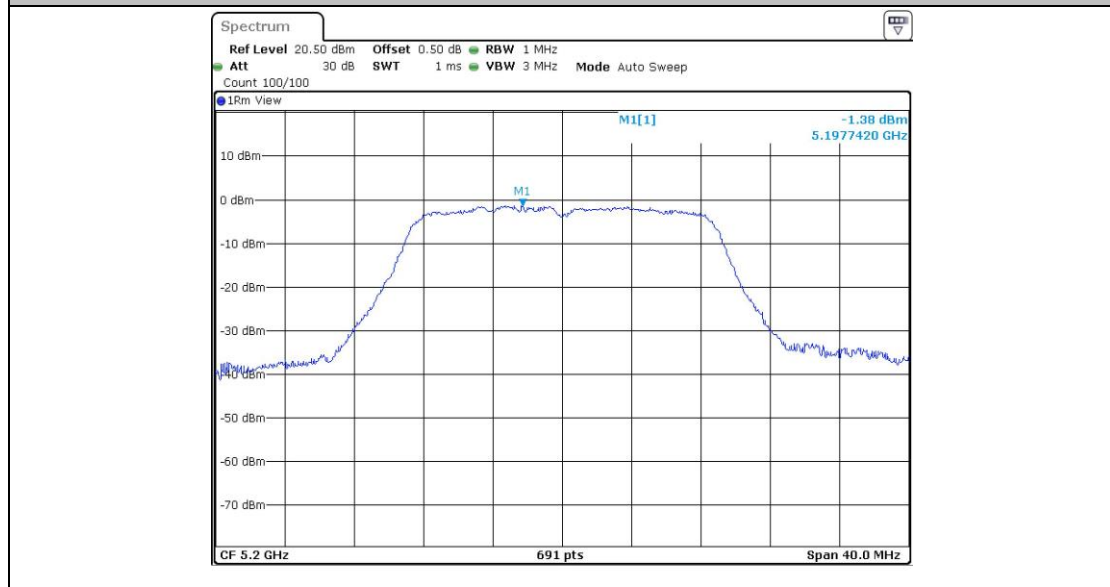
11A_Ant1_5785



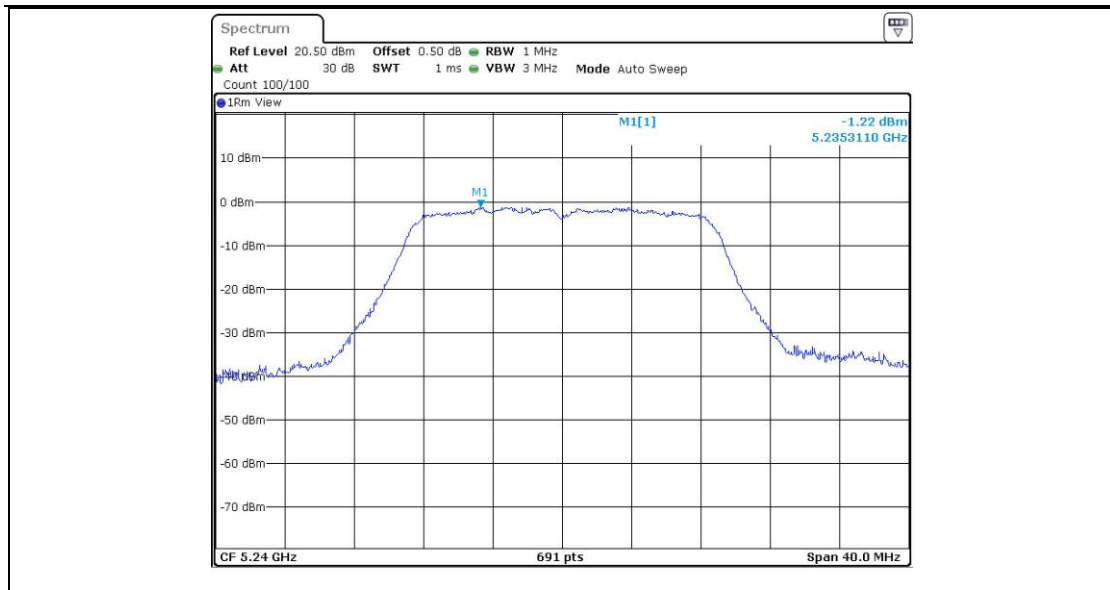
11A_Ant1_5825



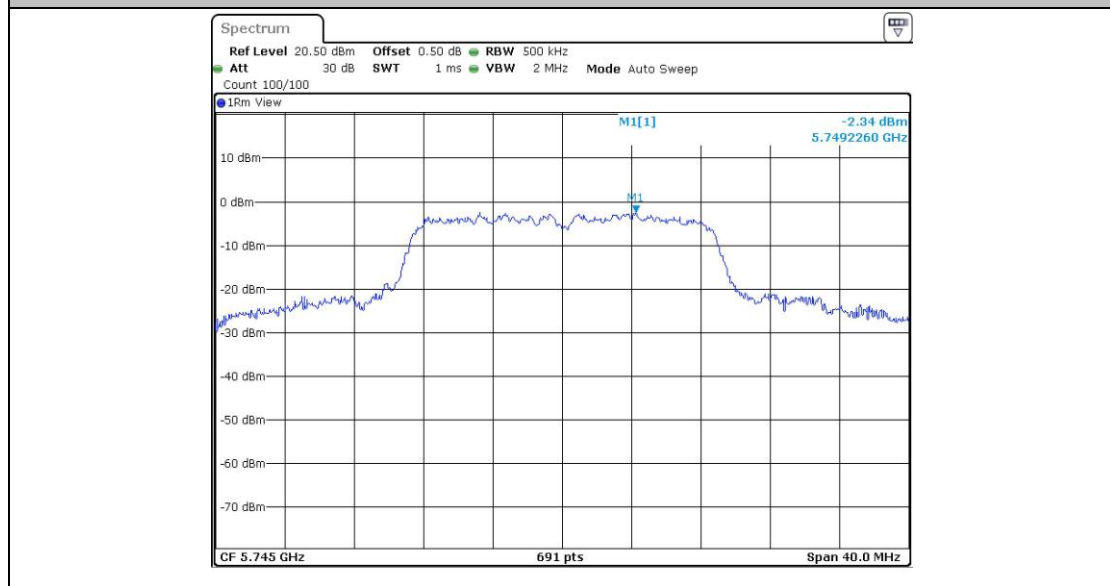
11N20SISO_Ant1_5180



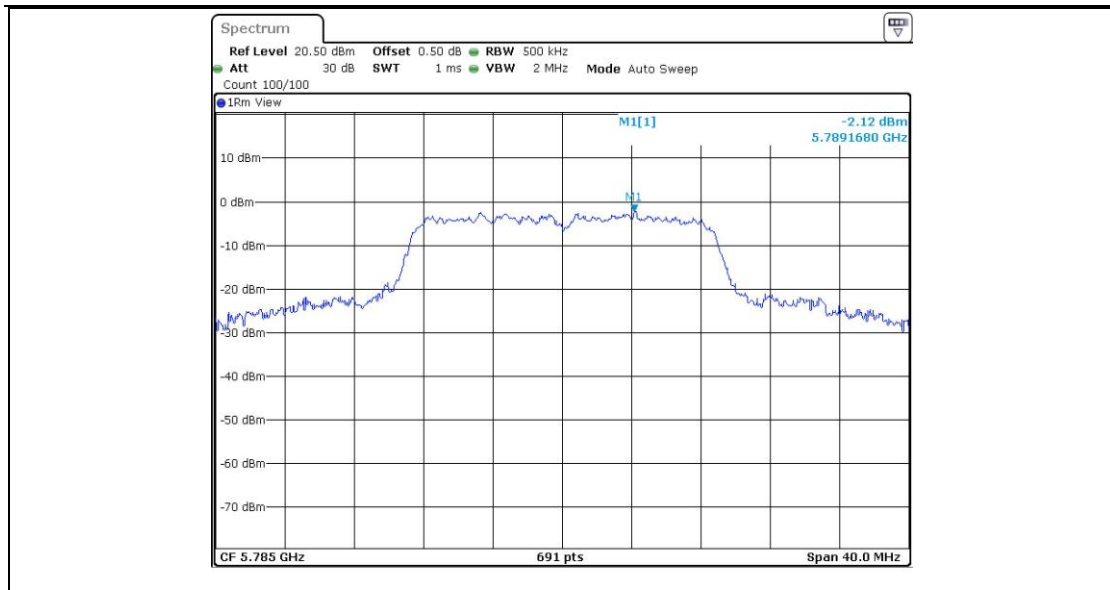
11N20SISO_Ant1_5200



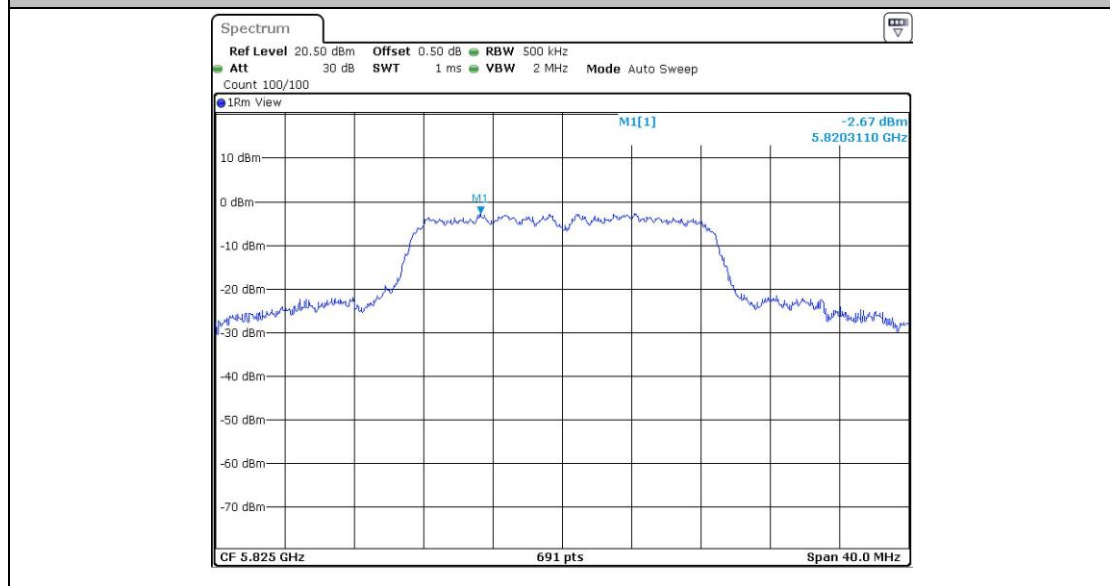
11N20SISO_Ant1_5240



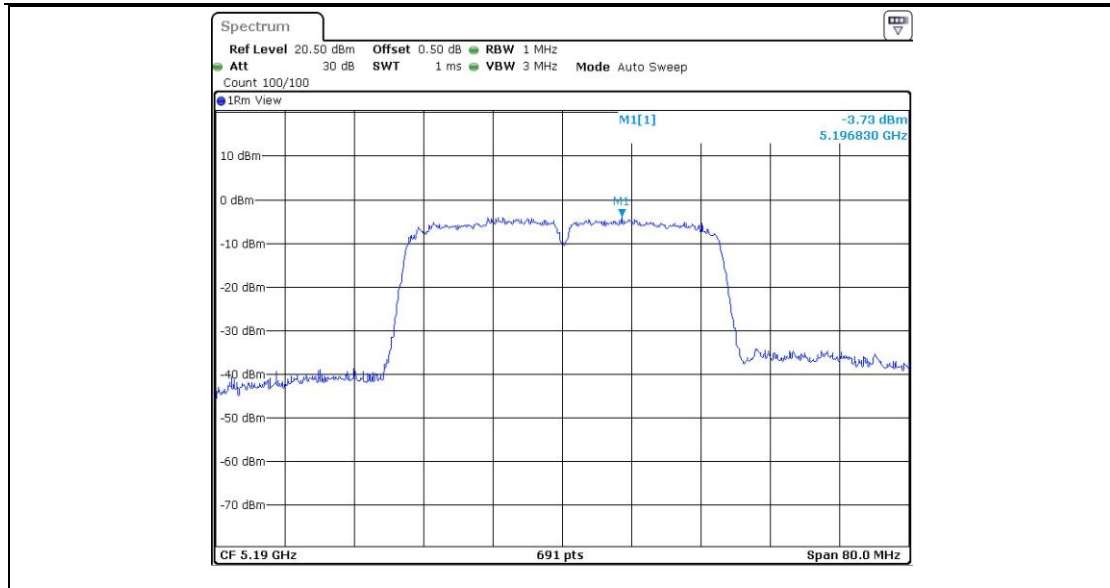
11N20SISO_Ant1_5745



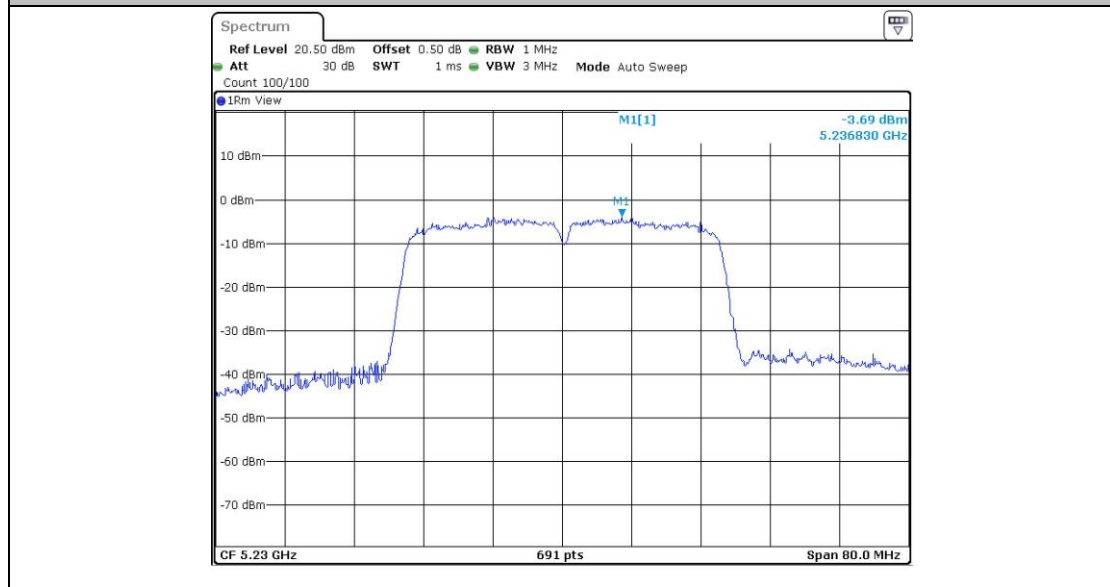
11N20SISO_Ant1_5785



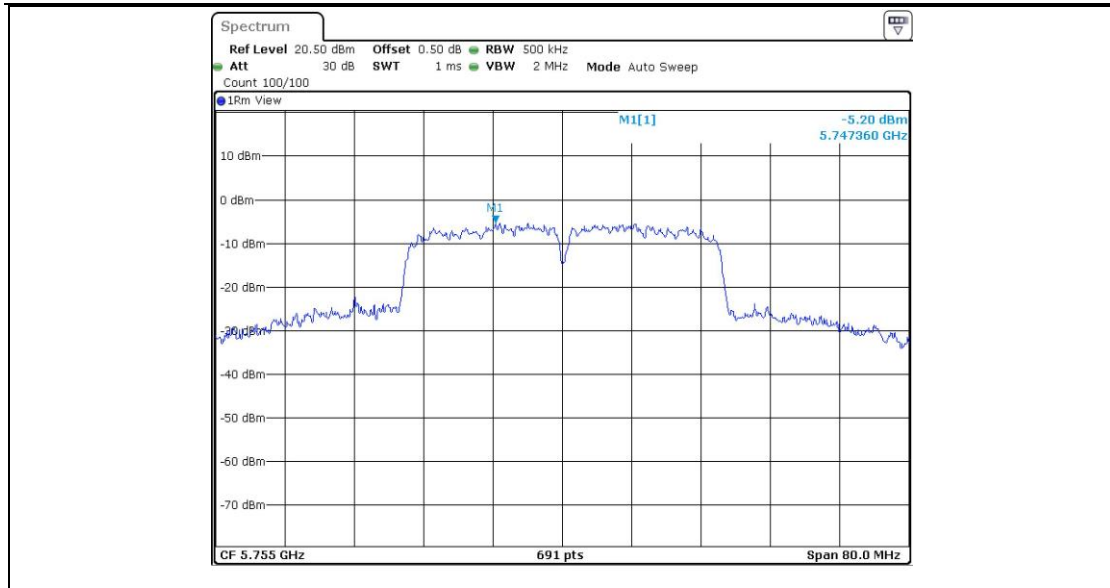
11N20SISO_Ant1_5825



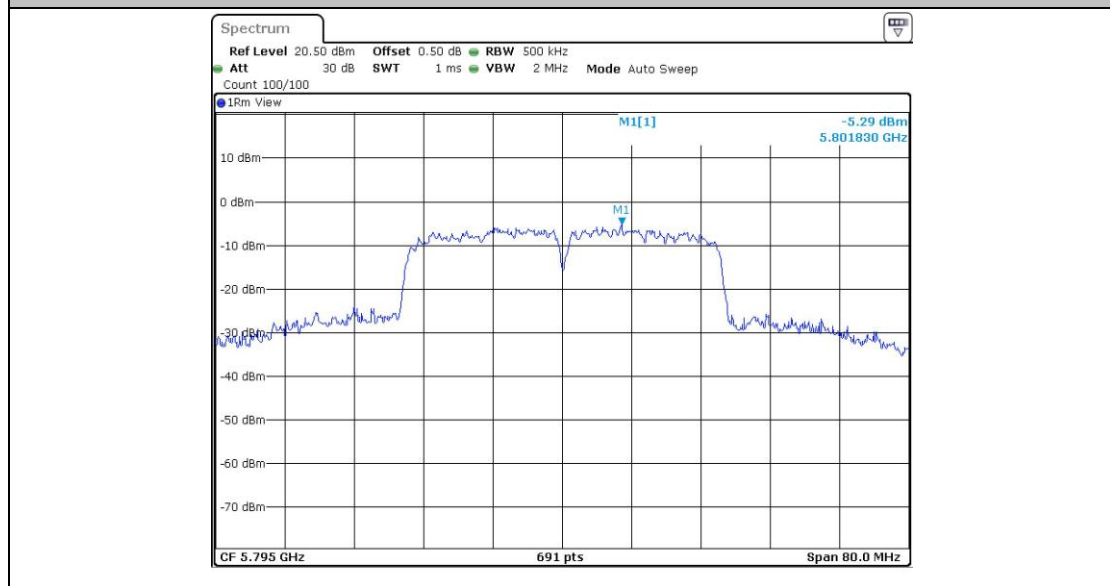
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

Appendix D: Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	75000	14.478764	20	PASS
			LV	NT	75000	14.478764	20	PASS
			HV	NT	75000	14.478764	20	PASS
		5200	NV	NT	75000	14.423077	20	PASS
			LV	NT	75000	14.423077	20	PASS
			HV	NT	75000	14.423077	20	PASS
		5240	NV	NT	75000	14.312977	20	PASS
			LV	NT	75000	14.312977	20	PASS
			HV	NT	75000	14.312977	20	PASS
		5745	NV	NT	75000	13.05483	20	PASS
			LV	NT	75000	13.05483	20	PASS
			HV	NT	75000	13.05483	20	PASS
		5785	NV	NT	60000	10.371651	20	PASS
			LV	NT	75000	12.964564	20	PASS
			HV	NT	75000	12.964564	20	PASS
		5825	NV	NT	75000	12.875536	20	PASS
			LV	NT	90000	15.450644	20	PASS
			HV	NT	75000	12.875536	20	PASS
11N20SI SO	Ant1	5180	NV	NT	60000	11.583012	20	PASS
			LV	NT	60000	11.583012	20	PASS
			HV	NT	60000	11.583012	20	PASS
		5200	NV	NT	60000	11.538462	20	PASS
			LV	NT	60000	11.538462	20	PASS
			HV	NT	60000	11.538462	20	PASS
		5240	NV	NT	60000	11.450382	20	PASS
			LV	NT	60000	11.450382	20	PASS
			HV	NT	60000	11.450382	20	PASS
		5745	NV	NT	60000	10.443864	20	PASS
			LV	NT	45000	7.832898	20	PASS
			HV	NT	45000	7.832898	20	PASS
		5785	NV	NT	60000	10.371651	20	PASS
			LV	NT	45000	7.778738	20	PASS
			HV	NT	45000	7.778738	20	PASS

11N40SI SO	Ant1	5825	NV	NT	60000	10.300429	20	PASS
			LV	NT	75000	12.875536	20	PASS
			HV	NT	60000	10.300429	20	PASS
		5190	NV	NT	90000	17.34104	20	PASS
			LV	NT	60000	11.560694	20	PASS
			HV	NT	60000	11.560694	20	PASS
		5230	NV	NT	60000	11.472275	20	PASS
			LV	NT	60000	11.472275	20	PASS
			HV	NT	90000	17.208413	20	PASS
5755	NV	NT	60000	10.425717	20	PASS		
	LV	NT	90000	15.638575	20	PASS		
	HV	NT	60000	10.425717	20	PASS		
5795	NV	NT	60000	10.353753	20	PASS		
	LV	NT	60000	10.353753	20	PASS		
	HV	NT	90000	15.53063	20	PASS		

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	5	75000	14.478764	20	PASS
			NV	15	75000	14.478764	20	PASS
			NV	25	75000	14.478764	20	PASS
			NV	35	75000	14.478764	20	PASS
		5200	NV	5	75000	14.423077	20	PASS
			NV	15	75000	14.423077	20	PASS
			NV	25	75000	14.423077	20	PASS
			NV	35	75000	14.423077	20	PASS
		5240	NV	5	60000	11.450382	20	PASS
			NV	15	75000	14.312977	20	PASS
			NV	25	75000	14.312977	20	PASS
			NV	35	75000	14.312977	20	PASS
		5745	NV	5	75000	13.05483	20	PASS
			NV	15	75000	13.05483	20	PASS
			NV	25	75000	13.05483	20	PASS
			NV	35	75000	13.05483	20	PASS
		5785	NV	5	75000	12.964564	20	PASS
			NV	15	60000	10.371651	20	PASS
			NV	25	60000	10.371651	20	PASS
			NV	35	75000	12.964564	20	PASS
5825	NV	5	90000	15.450644	20	PASS		

			NV	15	75000	12.875536	20	PASS
			NV	25	75000	12.875536	20	PASS
			NV	35	75000	12.875536	20	PASS
11N20SI SO	Ant1	5180	NV	5	60000	11.583012	20	PASS
			NV	15	60000	11.583012	20	PASS
			NV	25	60000	11.583012	20	PASS
			NV	35	60000	11.583012	20	PASS
		5200	NV	5	60000	11.538462	20	PASS
			NV	15	60000	11.538462	20	PASS
			NV	25	60000	11.538462	20	PASS
			NV	35	60000	11.538462	20	PASS
		5240	NV	5	60000	11.450382	20	PASS
			NV	15	60000	11.450382	20	PASS
			NV	25	60000	11.450382	20	PASS
			NV	35	60000	11.450382	20	PASS
		5745	NV	5	60000	10.443864	20	PASS
			NV	15	60000	10.443864	20	PASS
			NV	25	45000	7.832898	20	PASS
			NV	35	45000	7.832898	20	PASS
		5785	NV	5	45000	7.778738	20	PASS
			NV	15	45000	7.778738	20	PASS
			NV	25	45000	7.778738	20	PASS
			NV	35	45000	7.778738	20	PASS
		5825	NV	5	60000	10.300429	20	PASS
			NV	15	60000	10.300429	20	PASS
			NV	25	60000	10.300429	20	PASS
			NV	35	60000	10.300429	20	PASS
11N40SI SO	Ant1	5190	NV	5	60000	11.560694	20	PASS
			NV	15	90000	17.34104	20	PASS
			NV	25	60000	11.560694	20	PASS
			NV	35	60000	11.560694	20	PASS
		5230	NV	5	60000	11.472275	20	PASS
			NV	15	60000	11.472275	20	PASS
			NV	25	60000	11.472275	20	PASS
			NV	35	60000	11.472275	20	PASS
		5755	NV	5	90000	15.638575	20	PASS
			NV	15	60000	10.425717	20	PASS
			NV	25	90000	15.638575	20	PASS
			NV	35	90000	15.638575	20	PASS
		5795	NV	5	90000	15.53063	20	PASS
			NV	15	60000	10.353753	20	PASS



Total Quality. Assured.

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			NV	25	90000	15.53063	20	PASS
			NV	35	60000	10.353753	20	PASS